NCDIT | NORTH CAROLINA DEPARTMENT OF INFORMATION TECHNOLOGY

Roy Cooper
Governor

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Secretary and State Chief Information Officer

PC Volume Purchase Master Award 401061

The 2022-2023 PC Volume Purchase has been awarded to multiple vendors (see Table 1 for Award by Segment). **Agencies may select from <u>any</u> of the listed awarded vendors within a Segment when making their purchase selection.**

		Dell		HP		Lenovo		Microsoft	
Segment	Configuration	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Desktops	1.1a Standard/Basic Desktop (256GB SSD HD)	3000152098832	$544.00	2023DT1.1A	$565.47	11T7S28T00	$580.00		
	1.1b Standard/Basic Desktop (512GB SSD HD)	3000152098962	$579.00	2023DT1.1B	$594.31	11T7S28S00	$617.00		
	1.2 Mid-Range Desktop	3000152099057	$781.00	DT202312Z	$850.78	11TFS0EJ00	$1,037.00		
	1.3 Workstation 1 (i7 Proc, 4GB Video, 64GB Memory, 1TB SSD)	3000148817895.1	$1,559.00	2023WS1.3Z	$1,438.91	30FNS2UK00	$1,449.00		
	1.4 Workstation 2 (i9 Proc, 8GB Video, 64GB Memory, 1TB SSD)	3000148818977.1	$1,964.00	2023WS1.4Z	$1,880.78	30FNS2UL00	$1,806.00		
	1.5a Micro/Tiny Desktop (Intel i3 Proc, 256GB SSD)	3000152366328.1	$517.00	2023DM1.5A	$598.95	11T4S3QM00	$540.00		
	1.5b Micro/Tiny Desktop (Intel i5 Proc, 512GB SSD)	3000152366562.1	$624.00	2023DM1.5B	$685.98	11T4S3QN00	$692.00		

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Segment	Configuration	Dell		HP		Lenovo		Microsoft	
		Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Portables	2.1a Standard/Basic Laptop (Intel, Non-Touchscreen)	3000148639727	$662.00	2023NB2.1A	$656.11	21E4S0P300	$708.00		
	2.1b Standard/Basic Laptop (Intel, Touchscreen)	3000148637709	$713.00	2023NB2.1B	$706.58	21E4S0P500	$771.00	**Must order all 4 Part Numbers:** Black Model (Win 11): (LF1-00001, JWG-00001, JWM-00001, F9W-00162) **OR** Platinum Model (Win 11): (LFI-00002, JWG-00001, JWM-00001, F9W-00162)	**$1,901.89** **Black (Win 11):** LFI-00001- $1,563.99; JWG-00001 - $39.59; JWM-00001 - $35.19; F9W-00162 - $263.12 **OR** **Platinum (Win 11):** LFI-00002 - $1,563.99; JWG-00001 - $39.59; JWM-00001- $35.19; F9W-00162 - $263.12
	2.3a High End Laptop (Intel, Non-vPro, Non-Touchscreen)	3000152371754.1	$935.00	2023NB2.3A	$931.12	21C4S31800	$1,130.00		
	2.3b High End Laptop (Intel, Non-vPro, Touchscreen)	3000148641813	$986.00	2023NB2.3B	$977.47	21C4S31900	$1,190.00	**Must order all 4 Part Numbers:** Windows 11 Model (RL1-00001, JWG-0001, JWM-00001, F9W-00162)	**$2,637.89** **(Win 11 Model)** RL1-00001 - $2,299.99; JWG-0001 - $39.59; JWM-00001- $35.19; F9W-00162 - $263.12
	2.4a High End Laptop (Intel, vPro, Non-Touchscreen)	3000148642986	$1,162.00	2023NB2.4A	$1,097.98	21C4S31A00	$1,280.00		
	2.4b High End Laptop (Intel, vPro, Touchscreen)	3000148643086	$1,213.00	2023NB2.4B	$1,123.73	21C4S31C00	$1,340.00		
	2.5a Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Non-Touch)	3000150037953	$1,771.00	2023NB2.5A	$1,858.12				

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Segment	Configuration	Dell		HP		Lenovo		Microsoft	
		Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Portables	2.5a **ALTERNATE** Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Non-Touch)			20232.51AALTSTUD	$2,340.49				
	2.5b Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Touchscreen)	3000150038192	$1,826.00	2023ENB2.5B	$1,948.76				
	2.5b **ALTERNATE** Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Touchscreen)			20232.51BALTSTUD	$2,546.49				
	2.5c Elite Laptop 1 (Intel vPro, 4GB Video, 32GB Memory, Non-Touch)	3000150015610	$1,786.00	2023ENB2.5C	$1,894.17	21D9S12M00	$2,045.00		
	2.5d Elite Laptop 1 (Intel vPro, 4GB Video, 32GB Memory, Touchscreen)	3000150015969	$1,841.00	2023ENB2.5D	$1948.76	21D9S12N00	$2,085.00		
	2.6a Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Non-Touch)	3000148821565.2	$2,542.92	2023MWS2.6A	$2,666.67	21D7S1SE00	$2,688.00		
	2.6b Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Touchscreen)	3000148823573.2	$2,776.31	2023MWS2.6B	$2,790.27	21D7S2KL01	$2,982.00		
	2.6c Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Non-Touch)	3000148824157.2	$2,557.87	2023MWS2.6C	$2,666.67	21D7S1SC00	$2,699.00		
	2.6d Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Touchscreen)	3000148823813.2	$2,791.88	2023MWS2.6D	$2,790.27	21D7S2KK01	$2,993.00		
	2.7a Ultralight Laptop (Intel, Non-vPro)	3000148646828	$1,036.00	2023UL2.7A	$999.10	21B4S2BN00	$1,090.00		
	2.7a **ALTERNATE** Ultralight Laptop (Intel, Non-vPro)							**Must order all 3 Part Numbers:** Windows 11 Model (RBH-00026, JWM-00001, F9W-00162)	**$1954.30** **(Win 11 Model)** RBH-00026- $1,655.99 JWM-00001 - $35.19; F9W-00162 - $263.12
	2.7b Ultralight Laptop (Intel vPro)	3000148647420	$1,104.00	2023UL2.7B	$1,072.44	21B4S2BM00	$1,215.00		

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Segment	Configuration	Dell		HP		Lenovo		Microsoft	
		Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
2-in-1 Laptops / Tablets	3.1a 2-in-1 Laptop / Tablet (Intel Non-vPro) (No WWAN)	3000148657696.1	$1,247.00	2023TWO3.1ANO	$1,160.81	21B6S0WB00	$1,154.00		
	3.1a **ALTERNATE** 2-in-1 Laptop / Tablet (Intel Non-vPro) (No WWAN)			2023X23.1ANO	$1,429.64			**Must order all 5 Part Numbers:** (QIM-00001, JWM-00001, F9W-00158, QJX-00001, SPC-00005)	**$2,003.08** QIM-00001-$1,563.99 JWM-00001 - $35.19; F9W-00158- $263.12; QJX-00001 - $114.39; SPC-00005 - $26.39
	3.1b 2-in-1 Laptop / Tablet (Intel Non-vPro) (AT&T)	3000148988165	$1,247.00	2023TWO3.1BAT	$1,219.52	21B6S0WC00	$1,238.00		
	3.1b **ALTERNATE** 2-in-1 Laptop / Tablet (Intel Non-vPro) (AT&T)			2023X23.1BAT	$1,429.64			**Must order all 5 Part Numbers:** (RW8-00001, JWM-00001, F9W-00158, QJX-00001, SPC-00005)	**$2,003.08 (Microsoft SQ® 3 proc)** RW8-00001 - $1,563.99 JWM-00001 - $35.19; F9W-00158- $263.12; QJX-00001 - $114.39; SPC-00005 - $26.39
	3.1c 2-in-1 Laptop / Tablet (Intel Non-vPro) (Verizon)	3000148988583	$1,247.00	2023TWO3.1CVZ	$1,228.79	21B6S0WC00	$1,238.00		
	3.1c **ALTERNATE** 2-in-1 Laptop / Tablet (Intel non-vPro) (Verizon)			2023X23.1CVZ	$1,430.67			**Must order all 5 Part Numbers:** (EIV-00001, JWM-00001, F9W-00158, QJX-00001, SPC-00005)	**$2,141.08** EIV-00001 - $1,701.99 JWM-00001 - $35.19; F9W-00158- $263.12; QJX-00001 - $114.39; SPC-00005 - $26.39
	3.2a 2-in-1 Laptop / Tablet (No WWAN) (Intel vPro)	3000148811361	$1,262.00	2023TWO3.2ANO	$1,259.69	21B6S0WA00	$1,280.00		
	3.2a **ALTERNATE** 2-in-1 Laptop / Tablet (No WWAN) (Intel vPro)			2023X23.2ANO	$1,429.64				
	3.2b 2-in-1 Laptop / Tablet (AT&T) (Intel vPro)	3000148812297	$1,262.00	2023TWO3.2BAT	$1,285.44	21B6S0W900	$1,364.00		

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Segment	Configuration	Dell Vendor Part Number	Dell Volume Purchase Unit Price	HP Vendor Part Number	HP Volume Purchase Unit Price	Lenovo Vendor Part Number	Lenovo Volume Purchase Unit Price	Microsoft Vendor Part Number	Microsoft Volume Purchase Unit Price
2-in-1 Laptops / Tablets	3.2b **ALTERNATE** 2-in-1 Laptop / Tablet (AT&T) (Intel vPro)			2023X23.2BAT	$1,429.64				
	3.2c 2-in-1 Laptop / Tablet (Verizon) (Intel vPro)	3000148813444	$1,262.00	2023TWO3.2CVZ	$1,286.47	21B6S0W900	$1,364.00		
	3.2c **ALTERNATE** 2-in-1 Laptop / Tablet (Verizon) (Intel vPro)			2023X23.2CVZ	$1,430.67				
EDU Chromebook	4.1a Education Chromebook (Intel, 32GB eMMC HD) 2-in-1 Model **(No WWAN**) **(Touch)**	3000131000996.4	$334.00	2023CB4.1A	$402.73	81MB004EUS	$341.00		
	4.1b Education Chromebook (Intel, 32GB eMMC HD) 2-in-1 Model **(LTE)** **(Touch)**					82JB0000US	$566.00		
	4.2a Education Chromebook (Intel, 32GB eMMC HD) Clamshell Model **(No WWAN**) **(Touch)**	3000130999942.1	$297.00	2023CB4.2A	$311.06				
	4.2b Education Chromebook (Intel, 32GB eMMC HD) Clamshell Model **(LTE)** **(Touch)**	3000128167315	$399.00						
	4.2b **ALTERNATE** Education Chromebook (Qualcomm, 32GB eMMC HD) Clamshell Model (LTE) (Touch)			2023CB4.2B	$398.61				
	4.3a Education Chromebook (AMD, 32GB eMMC HD) 2-in-1 Model **(No WWAN)** **(Touch)**					82J9000EUS	$387.00		
	4.3b Education Chromebook (AMD, 32GB eMMC HD) 2-in-1 Model (LTE) **(Touch)**					82J9000LUS	$493.00		

Segment	Configuration	Dell		HP		Lenovo		Microsoft	
		Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Monitors	5.1a Flat Panel Monitor, 24-inch (with USB-C Hub)	210-AYZC	$239.00	6N4D0DP	$199.82	63B3GAR6US	$242.00		
	5.1a ALTERNATE Flat Panel Monitor, 24-inch (with USB-C Hub)	210-BBCH	$195.00	40Z32DP	$278.10				
	5.1b Flat Panel Monitor, 24-inch (no USB-C Hub)	210-AYYV	$202.00	9VF99AA	$154.59	63B4GAR6US	$219.00		
	5.2 Flat Panel Monitor, 27-inch	210-BDKG	$255.00	6N4D3DP	$260.59	63A3GAR1US	$291.00		
	5.3 Flat Panel Monitor, 24-inch (High Resolution)	210-AXMG	$240.00	1C4Z6USC	$268.83	63B3GAR6US	$242.00		
	5.4 Flat Panel Monitor, 27-inch (High Resolution, 4K)	210-BDLK	$340.00	1B9T0USC	$432.60	61DAMAR1US	$402.00		
	5.5 Flat Panel Monitor, 24-inch for Video Conferencing	210-AYPJ	$267.00	169L0USC	$212.18	61FCMAR6US	$204.00		
	5.6 Flat Panel Monitor, 27-inch for Video Conferencing	210-AYQG	$335.00	40Z29DP	$339.90	62A9GAR1US	$368.00		
	5.7 34-inch Curved Monitor	210-BFOU	$552.00	21Y56AA	$359.47	61F3GAR1US	$458.00		
	5.8 38-40 inch Curved Monitor	210-AYLE	$907.00	3A6F7AA	$1,123.73	62DDGAR6US	$1,057.00		

Lowest Unit Price

Table 1: PC Volume Award by Segment

Appendix A of this document contains the available accessories for awarded configurations, along with the Vendor Part Numbers and Not-To-Exceed Unit Pricing. Appendix B of this document contains detailed technical specifications for the awarded items in Table 1.

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ORDERING INSTRUCTIONS: Agencies should follow the steps below to streamline the ordering of PCs and related peripherals and value-added services under the PC Volume Master Award. **Please note:** Requisitions **no longer** need to be sent to the Statewide IT Procurement Office prior to ordering if your orders are placed via E-Procurement. If you do not use E-Procurement, please email a copy of your request to debbie.patterson@nc.gov for tracking purposes.

1. Purchase Orders for purchases under this Volume Purchasing Award **must** be sent to the ordering addresses in table below.

Vendor	Ordering Address	Ordering Phone Number / Fax Number
Dell Marketing L.P.	One Dell Way RR8-MS-8741 Round Rock, TX 78682	Phone: 737-444-0413 Email: Karen.Lansdale@Dell.com
Applied Data Technologies (for HP Product Orders) **(All HP orders should be placed with Applied Data Technologies – HUB Vendor)**	8515 Crown Crescent Ct. Charlotte, NC 28227	Phone: 800-267-1419 Email: NCBulkBuy@AppliedDataTech.com
Lenovo	1009 Think Place Morrisville, NC 27560	Phone: 919-874-2931 Email: tmelvin@lenovo.com
Microsoft **(All Microsoft orders should be placed with one of Microsoft's designated resellers listed). Microsoft encourages Agencies to check with their 204A/Volume Purchase resellers for additional pricing discounts (if available).**	Applied Data Technologies (HUB Vendor) 8515 Crown Crescent Ct. Charlotte, NC 28227	Phone: 800-267-1419 Email: NCBulkBuy@AppliedDataTech.com
	CDWG 230 N. Milwaukee Ave. Vernon Hills, IL 60061	Phone: 866-819-6497 Email: josebar@cdw.com
	Microsoft Store One Microsoft Way Redmond, WA 98052	Phone: 866-425-4709 Email: msncsc@microsoft.com
	SHI International Corp. (HUB Vendor) 290 Davidson Avenue Somerset, NJ 08873	Phone: 800-211-0831 Email: carolinateam@shi.com

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2. When ordering, IT IS CRITICAL THAT YOU INCLUDE ALL OF THE REQUIRED INFORMATION NOTED BELOW ON YOUR PURCHASE ORDER:

Field	Instructions
PO Comments	Reference "NCBB Order and Master Quote 401061". (**Note:** Select 204A as Contract number on E-Procurement requisitions.)
Vendor Comments	Provide an email address and phone number of who the Vendor should contact with any questions regarding your purchase order.
Line Item Description for Desktops, Portables, and Monitors	Include Configuration Name exactly as it appears in Table 1 (e.g., 1.1a Standard/Basic Desktop (256GB SSD)) <u>AND</u> Vendor Part Number from Table 1. **NOTE: Agencies may order any of the Monitor configurations from any of the awarded vendors.**
Line Item Description for 2-in-1 Laptop / Tablet	If you are ordering a 2-in-1 Laptop/Tablet without wireless wide area network (WWAN) capability (e.g., you only require Wi-Fi and no data plan), then your line item description should include "3.1a 2-in-1 Laptop/Tablet (No WWAN)" AND the Vendor Part Number from Table 1. If you need a 2-in-1 Laptop/Tablet with WWAN capability from either AT&T or Verizon, include the appropriate configuration name AND Vendor Part Number from Table 1. Note that Dell, HP, Lenovo, & Microsoft may have different Vendor Part Numbers for the three configuration options under the 2-in-1 Laptops / Tablets Segment. When ordering a WWAN model of the 2-in-1 Laptop/Tablet, note in the line item description if Agency is requesting the AT&T or Verizon model. **To obtain AT&T or Verizon data service for your 2-in-2 Laptop/Tablet, you should use the 915A IT Statewide Term Contract for Cellular Services.**
Line Item Description for EDU Chromebooks	If you are ordering an EDU Chromebook model, Agency should specify in the line item description if they are requesting a 2-in-1 Chromebook or a Clamshell Chromebook model.
Line Item Description for Accessories	Appendix A of this document contains a listing of the Accessories that are available for Vendors' awarded configurations. Be sure to include in the line item Description the Accessory Item Description (e.g., Nylon Carrying Case) and Vendor Part Number as they appear in Appendix A of this document. **Please closely review the listed Accessory items in Appendix A to make sure you are ordering the correct Accessory for the Desktop, Portable, 2-in-1 Laptop / Tablet, or EDU Chromebook configuration and Vendor that are listed on your requisition**.
Special Instructions or Order Status Inquiries	Just like any other normal procurement, if you have specific delivery instructions or delivery requirements (e.g., no loading dock, inside delivery required), you must include them in the Vendor Comments on your Purchase Orders. Also, please contact the appropriate awarded vendor and notify them of any special delivery requirements. If you have multiple ship-to locations on your purchase orders, please contact the awarded vendor to ensure that the order is correctly designated in the Vendor's system. For Order Status Questions, please contact the appropriate vendor or reseller contact listed below. • For Dell – Contact Karen Lansdale at Karen.Lansdale@Dell.com or 737-444-0413 • For HP Products – Contact the NCSled Customer Service Team at NCBulkBuy@AppliedDataTech.com or 800-267-1419 • For Lenovo – Contact Tanika Melvin at tmelvin@lenovo.com or 919-874-2931 • For Microsoft Products – Contact the appropriate Microsoft reseller listed below:

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Field	Instructions		
Special Instructions or Order Status Inquiries	**Microsoft Resellers:**	Applied Data Technologies (HUB Vendor) 8515 Crown Crescent Ct. Charlotte, NC 28227	Phone: 800-267-1419 Email: NCBulkBuy@AppliedDataTech.com
		CDWG 230 N. Milwaukee Ave. Vernon Hills, IL 60061	Phone: 866-819-6497 Email: josebar@cdw.com
		Microsoft Store One Microsoft Way Redmond, WA 98052	Phone: 866-425-4709 Email: msncsc@microsoft.com
		SHI International Corp. (HUB Vendor) 290 Davidson Avenue Somerset, NJ 08873	Phone: 800-211-0831 Email: carolinateam@shi.com

3. **Warranty Information**: All configurations in the Desktop, Portable, and 2-in-1 Laptop/Tablet Segments come standard with a 3-Year, Next Business Day On-Site with Defective Hard Drive Retention Warranty. If you wish to purchase an extended or upgraded warranty, then you will need to select the applicable extended/upgraded warranty option from the list of Accessories in Appendix A of this document and add it as an additional line item on your requisition. Be sure to include in the line item Description the Accessory Item Description (e.g., 4th Year Next Business Day, On-site w/hard drive retention warranty) and Vendor Part Number as they appear in Appendix A of this document. EDU Chromebooks come standard with a 1-Year Mail-In after Remote Diagnosis Limited Warranty. Please note: **Dell will add the cost of an extended warranty into the total cost of the device when it is invoiced. The extended warranty options will not be a separate line item on Dell's invoices.**

   All configurations in the Monitors Segment come standard with a 3-Year, Advanced Exchange NBD warranty. There are no upgrade or extended warranty options for monitors under this award.

4. **Operating System Information**: All Dell, HP, and Lenovo Device Configurations ship with Windows 11 Pro 64-Bit ONLY downgraded to Windows 10 Pro 64-Bit. Microsoft Device Configurations ship with Windows 11 Pro 64-Bit.

5. **Resource Media:** Agencies may download Resource Media from the Vendors' websites

   - For Dell – Go to www.dell.com/support
   - For HP – Agencies can download individual drivers at www.hp.com. They can download groups of drivers using the Softpaq Program http://ftp.hp.com/pub/caps-softpaq/cmit/HP_Driverpack_Matrix_x64.html or the entire CD via the HP Software site.
   - For Lenovo – Go to https://support.lenovo.com/es/en/lenovorecovery
   - For Microsoft - Go to https://docs.microsoft.com/en-us/surface/contact-surface-support?tabs=online

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6. **Value Added Services**: If you are ordering any of the Value-Added Services such as Custom Imaging, Asset Tagging, Installation, or Managed Logistics / Staggered Delivery, then you must contact the Vendor prior to issuing your purchase order. These Value-Added Services require the Agency to provide the Vendor with additional information in advance (e.g., Agency must provide Vendor with their Pre-Certified Custom Image and / or Asset Tags). There is additional order processing time involved with the initial set-up and testing of a Custom Image and Asset Tagging. See Table 2 for Vendor Part Numbers and Not-To-Exceed unit pricing for Value Added Services available under this award. **Additional Value-Added Services may be offered by the Vendors upon request.**

Value Added Service Option	Dell		HP		Lenovo		Microsoft	
	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Custom Imaging	366-0147	$18.00	ADT1001	$10.00	5TS0Z42088	$19.00	** Agencies should contact Microsoft reseller for quotes on any Value-Added Services requested with their product purchases.	
Asset Tags	366-0141	$15.00	ADT1002	$5.00	5TS0F86358	$6.00		
Installation	Use all 4 part numbers: 810-1357, 810-1351, 378-6609, 366-0318 (includes custom imaging and asset tagging)	$145.00	ADT1003	$20.00	TBD – SOW based	$65.00		
Managed Logistics / Staggered Delivery	369-2102	$13.00	ADT1004	$1.00	TBD – SOW based	TBD - Contact Vendor for Quote		

Table 2: Value Added Services Vendor Part Numbers and Not-To-Exceed Unit Prices

7. **Order Delivery:** The standard delivery for orders issued under the Volume Purchase is within 21 days after Vendor's receipt of purchase order. Please note: The ongoing COVID-19 Pandemic and worldwide component shortages continue to cause significant shipping delays for devices and certain options (specifically laptops, monitors, and docking stations). Volume Purchase orders may take several months to be delivered at this time.

8. **Volume Purchase Master Award and Volume Purchase Procedures:** The most current versions of the Volume Purchase Master Award and Volume Purchase Procedures are located at the following website: http://it.nc.gov/statewide-programs/it-volume-purchasing. The Volume Purchase Master Award is updated frequently due to Vendor product updates, so please use the most current version of the Volume Purchase Master Award posted on this site when placing an order.

9. **Questions:** Please email Debbie Patterson at debbie.patterson@nc.gov if you have any additional questions or issues. If you have an issue or question about an existing order, please include your purchase order number and the order date in your email.

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Appendix A

Appendix A contains the available Accessories for awarded configurations, including the Vendor Part Number and Not-To-Exceed Unit Prices.

Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Desktops	Standard/Basic Desktop	1.06	8.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AA101752	$51.00	13L76AA	$69.01				
	Mid-Range Desktop	1.07	8.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AA101752	$51.00	13L76AA	$69.01				
	Standard/Basic Desktop	1.08	16.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AA101753	$113.00	13L74AA	$115.36	4X71D07931	$140.00		
	Mid-Range Desktop	1.09	16.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AA101753	$113.00	13L74AA	$115.36				
	Tiny/Micro Desktop	1.10	16.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AA075845	$113.00	13L75AA	$115.36	4X71D09535	$160.00		
	Workstation 1 & 2	1.11	16.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB371019	$108.00	4M9Y0AA	$142.14				
	Standard/Basic Desktop	1.12	32.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB120719	$300.00	13L72AA	$226.60	4X71D07932	$240.00		
	Mid-Range Desktop	1.13	32.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB120719	$300.00	13L72AA	$226.60				
	Workstation 1 & 2	1.14	32.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB120719	$300.00	4M9Y2AA	$265.74				
	Tiny/Micro Desktop	1.15	32.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB120719	$300.00	13L73AA	$266.60				
	Workstation 1 & 2	1.16	64.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM)	AB120719 x 2	$600.00						
	All Desktop Configurations	1.17	Mousepad	A8376318	$9.45	58021-	$3.99				
	All Desktop Configurations	1.18	External Speakers	A7129773	$17.09	A674785	$16.02	4XD1C82055	$80.00		
	All Desktop Configurations	1.19	Webcam	A7387534	$29.99	53X27AA	$22.66	4XC1B34802	$40.00		

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Desktops	All Desktop Configurations	1.20	USB External DVD +/- RW Drive	429-AAUQ	$34.74	F2B56AA	$32.96	4XA0E97775	$54.00		
	All Desktop Configurations	1.21	USB External Headset for Business	A8419917	$12.89	428K7AA	$12.36	4XD1C99223	$104.00		
	All Desktop Configurations	1.22	USB Wireless Keyboard & Mouse Combo	580-AJIS	$32.06	3M165AA	$86.52	4X30M39458	$36.00		
	All Desktop Configurations	1.23	USB Wireless Keyboard	580-AJIS (includes mouse)	$32.06	920-003051	$21.54	GY41C95749	$20.00		
	All Desktop Configurations	1.24	USB Wireless Mouse	570-AALK	$15.98	910-006272	$35.16	4Y50R20864	$14.00		
	All Desktop Configurations	1.25	Microsoft 10/11 Professional (OEM) with media OR Recovery CD	Downloadable	$0.00	Downloadable	$0.00	Downloadable	$0.00		
	All Desktop Configurations	1.26	Resource CDs	Downloadable	$0.00	Downloadable	$0.00	Downloadable	$0.00		
	All Desktop Configurations	1.27	4-Port USB 3.0 Hub with cable	AA781805	$30.09	C002281	$29.22	4X90X21427	$24.00		
	Tiny/Micro Desktop	1.28	Micro VESA Mount with adapter box	452-BDUY	$20.84	2DW53AA	$35.02	4XF0N03161	$14.00		
	Tiny/Micro Desktop	1.29	Micro All-in-One Stand	452-BDUB	$83.39	G1V61AA	$82.40	4XF0N82412	$26.00		
	Standard/Basic Desktop	1.30	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	U11BVE	$28.84	5WS0T36207+5PS0D80974	$90.40		
	Mid-Range Desktop	1.31	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	U11BVE	$28.84	5WS0T36207+5PS0D80974	$90.40		
	Workstation 1 & 2	1.32	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	U1G56E	$23.69	5WS0T36136+5PS0Q11739	$89.60		
	Tiny/Micro Desktop	1.33	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	U11BVE	$28.84	5WS0T36207+5PS0D80974	$90.40		
	Standard/Basic Desktop	1.34	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	U11BWE	$38.11	5WS0T36123+5PS0K26186	$143.20		
	Mid-Range Desktop	1.35	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	U11BWE	$38.11	5WS0T36123+5PS0K26186	$143.20		
	Workstation 1 & 2	1.36	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	U1G57E	$37.08	5WS0T36135+5PS0Q11741	$138.40		

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Desktops	Tiny/Micro Desktop	1.37	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	U11BWE	$38.11	5WS0T36123+5 PS0K26186	$143.20		
Portables	Standard/Basic Laptop	2.08	16.0GB DDR3 SDRAM Memory (1 DIMM)	AA937596	$150.00	286J1AA	$123.60	4X71D09535	$160.00		
	High End Laptop (if applicable)	2.09	32.0GB DDR3 SDRAM Memory (1 DIMM)	AA937596 x 2	$300.00	4S967AA	$248.23	4X71D09535	$160.00		
	Elite Laptop 1 & 2	2.10	32.0GB DDR3 SDRAM Memory (1 DIMM)			5S4C0AA#ABA	$336.81				
	Elite Laptop 1 & 2	2.11	64.0GB DDR3 SDRAM Memory (2 DIMMS)	AB120716 x 2	$600.00						
	Elite Laptop 2	2.11a	128B 3600Mhz CAMM Memory	370-AHFR	$1,200.00						
	Standard/Basic Laptop	2.12	Port Replicator (Docking Station)	210-AZBG	$165.00	5TW10AA	$139.05	40AY0090US	$176.00	1GK-00001	$228.79
	Standard/Basic Laptop	2.12a	USB-C Essential Docking Station			72C71AA	$145.00				
	High End Laptop	2.13	Port Replicator (Docking Station)	210-AZBG	$165.00	5TW10AA	$139.05	40AY0090US	$176.00		
	High End Laptop	2.13a	USB-C Essential Docking Station			72C71AA	$145.00				
	Elite Laptop 1	2.14a	Port Replicator (Docking Station)	210-BDQH (For Elite Laptop 1)	$166.00	4J0G4AA#ABA	$247.20	40B00300US	$270.00		
	Elite Laptop 2	2.14b	Port Replicator (Docking Station)	210-AZBN (For Elite Laptop	$181.00						
	Ultralight Laptop	2.15	Port Replicator (Docking Station)	210-BDQH	$166.00	5TW10AA	$139.05	40AY0090US	$176.00		
	Ultralight Laptop	2.15a	USB-C Essential Docking Station			72C71AA	$145.00				

Segment	Configuration		Accessory Item Description	Dell Vendor Part Number	Dell Volume Purchase Unit Price	HP Vendor Part Number	HP Volume Purchase Unit Price	Lenovo Vendor Part Number	Lenovo Volume Purchase Unit Price	Microsoft Vendor Part Number	Microsoft Volume Purchase Unit Price
Portables	Standard/Basic Laptop	2.16a	AC Adapter / Power Supply - (traditional 45 degree/right angle or barrel adapters)	492-BBME	$30.00	H6Y89AA#ABA	$18.54	4X20M26268	$36.00	Q5N-00001	$79.19
	Standard/Basic Laptop	2.16b	USB-C AC Adapter/Power Supply			1HE07AA	$28.84	4X20M26268	$36.00		
	High End Laptop	2.17a	AC Adapter / Power Supply - (traditional 45 degree/right angle or barrel adapters)	492-BBME (works with Items 2.3a & 2.3b)	$30.00	H6Y89AA#ABA	$18.54	4X20M26252	$44.00		
	High End Laptop	2.17b	USB-C AC Adapter/Power Supply	450-AHOM (works with Items 2.4a & 2.4b)	$49.00	1HE07AA	$28.84	4X20M26252	$44.00		
	Elite Laptop 1 & 2	2.18a	AC Adapter / Power Supply - (traditional 45 degree/right angle or barrel adapters)	450-AGCU (works with Items 2.6a,b,c,d)	$95.00	491C7AA#ABA	$46.35	4X20E50558	$88.00		
	Elite Laptop 1 & 2	2.18b	USB-C AC Adapter/Power Supply	450-AHOM (works with Items 2.5a,b,c,d)	$49.00			4X20E50558	$88.00		
	Ultralight Laptop	2.19a	AC Adapter / Power Supply - (traditional 45 degree/right angle or barrel adapters)			H6Y89AA#ABA	$18.54	4X20M26252	$44.00		
	Ultralight Laptop	2.19b	USB-C AC Adapter/Power Supply	492-BCNW	$30.00	1HE07AA	$28.84	4X20E50558	$88.00		
	All Laptop Configurations	2.20	Nylon Carrying Case	460-BCMK	$20.00	1X645AA	$20.60	4X40Y95214	$16.00		
	All Laptop Configurations	2.21	Laptop Backpack (nylon,water-resistant)	460-BCTJ	$20.84	1X644AA	$18.54	4X41A30364	$40.00		
	All Laptop Configurations	2.22	USB/Thunderbolt Universal Docking Station	210-BDQH	$166.00	5TW13AA	$185.40	40AV0135US	$220.00		
	All Laptop Configurations	2.23	Cable Lock	AA549668	$26.26	6UW42AA	$28.84	4XE1B81916	$40.00		
	All Laptop Configurations	2.24	External Speakers	A7129773	$17.09	A674785	$16.02	4XD1C82055	$80.00		
	All Laptop Configurations	2.25	4-Port USB 3.0 Hub with cable	AA781805	$30.09	C002281	$29.22	4X90X21427	$24.00		
	All Laptop Configurations	2.26	USB External Headset for Business	A8419917	$12.89	428K7AA	$12.36	4XD1C99223	$104.00	8JN-00001	$41.79

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Portables	All Laptop Configurations	2.27	Webcam	A5485871	$29.99	53X27AA	$22.66	4XC1B34802	$40.00	8MA-00001	$58.51
	All Laptop Configurations	2.28	Mousepad	A8376318	$9.45	58021-	$3.99	-			
	All Laptop Configurations	2.29	Mouse, USB, 2-button, Optical/Scroll	275-BBCB	$15.98	265A9AA	$11.33	4Y51C68693	$12.00		
	All Laptop Configurations	2.30	Mouse, USB, 2-button, Wireless	570-AALK	$15.98	3B4Q5AA#ABA	$21.63	4Y50R20864	$14.00		
	All Laptop Configurations	2.31	Mouse, Bluetooth	570-ABGK	$15.98	1D0K2AA	$44.29	4Y50X88822	$24.00	KGZ-00001	$30.79
	All Laptop Configurations	2.32	Keyboard, USB, Enhanced	580-ADMT	$13.00	9SR37AA	$15.45	4Y40T11813	$48.00	PY9-00001	$35.16
	All Laptop Configurations	2.33	Keyboard, USB, Wireless	580-AJIS (includes mouse)	$32.06	45U14AA	$25.75	4X30H56841	$32.00		
	All Laptop Configurations	2.34	Keyboard, Bluetooth	A8622614	$32.06	920-003051	$21.54	4Y40X49493	$80.00		
	All Laptop Configurations	2.35	Keyboard and Mouse Combo, USB, Wireless	580-AJIS	$32.06	3M165AA	$86.52	4X30M39458	$36.00		
	All Laptop Configurations	2.36	Keyboard, Ergonomic, Wired	AA842056	$32.06	K75400US	$43.69	0B47190	$48.00		
	All Laptop Configurations	2.37	Keyboard, Ergonomic, Wireless	A7057235	$32.06	920-010175	$123.82	4Y41C33748	$80.00		
	All Laptop Configurations	2.38	Keyboard, Ergonomic, Bluetooth	AA841964	$32.06	920-010175	$123.82	4Y40X49493	$80.00		
	All Laptop Configurations	2.39	USB External DVD+/-RW Drive	429-AAUQ	$34.74	F2B56AA	$32.96	4XA0E97775	$54.00		
	All Laptop Configurations	2.40	Microsoft 10/11 Professional (OEM) with media OR Recovery CD	Downloadable	$0.00	Downloadable	$0.00	Downloadable	$0.00		
	All Laptop Configurations	2.41	Resource CDs	Downloadable	$0.00	Downloadable	$0.00	Downloadable	$0.00		
	Standard/Basic Laptop	2.42	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	UB5F2E	$86.52	5WS0T36121+ 5WS0L13023	$186.40	HP3-00105	$307.12
	High End Laptop	2.43	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	UA6H7E	$107.12	5WS0T36185+ 5PS0G79465	$178.40		
	Elite Laptop 1 & 2	2.44	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	U02BZE	$97.85	5WS1H31775+ 5PS1H31761 (For Elite Laptop 1)	$153.60		

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Segment	Configuration		Accessory Item Description	Dell Vendor Part Number	Dell Volume Purchase Unit Price	HP Vendor Part Number	HP Volume Purchase Unit Price	Lenovo Vendor Part Number	Lenovo Volume Purchase Unit Price	Microsoft Vendor Part Number	Microsoft Volume Purchase Unit Price
Portables								5WS0V07069+ 5PS0V07106 (For Elite Laptop 2)	$169.60		
	Ultralight Laptop	2.45	4th Year Next Business Day, On-site w/hard drive retention warranty	4thYr PS	$110.00	UA6H7E	$107.12	5WS0T36185+ 5PS0G79465	$178.40		
	Standard/Basic Laptop	2.46	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	UB5F3E	$110.21	5WS0T36181+ 5PS0K27099	$247.20		
	High End Laptop	2.47	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	UA6H8E	$141.11	5WS0T36204+ 5PS0K18198	$287.20		
	Elite Laptop 1 & 2	2.48	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	U02C0E	$144.20	5WS1H31756+ 5PS1H31796 (For Elite Laptop 1)	$255.20		
								5WS0V07089+ 5PS0V07084 (For Elite Laptop 2)	$271.20		
	Ultralight Laptop	2.49	5th Year Next Business Day, On-site w/hard drive retention warranty	5th Yr PS	$220.00	UA6H8E	$141.11	5WS0T36204+ 5PS0K18198	$287.20		
	Standard/Basic Laptop	2.50	3YR. Extended Battery Warranty to match 3YR Device warranty	3 YR Extended Battery	$80.00	Included w Standard Warranty	$0.00	5WS0L01988	$28.00		
	High End Laptop	2.51	3YR. Extended Battery Warranty to match 3YR Device warranty	3 YR Extended Battery	$80.00	Included w Standard Warranty	$0.00	5WS0A23013	$28.00		
	Elite Laptop 1 & 2	2.52	3YR. Extended Battery Warranty to match 3YR Device warranty	3 YR Extended Battery	$80.00	Included w Standard Warranty	$0.00	5WS1H31713	$28.00		
	Ultralight Laptop	2.52b	3YR. Extended Battery Warranty to match 3YR Device warranty	3 YR Extended Battery	$80.00	Included w Standard Warranty	$0.00	5WS0A23013	$28.00		
	Standard/Basic Laptop	2.53	3 Year Accidental Damage Warranty	3 YR DAMS*	$100.00	UB5F7E	$131.84	5PS0L30075	$69.00		

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Portables	High End Laptop	2.54	3 Year Accidental Damage Warranty	3 YR DAMS*	$100.00	UA6H9E	$127.72	5PS0A23193	$76.00		
	Elite Laptop 1 & 2	2.55	3 Year Accidental Damage Warranty	3 YR DAMS*	$100.00	U02C1E	$141.11	5PS1H31737 (For Elite Laptop 1)	$92.00		
								5PS0V07049 (For Elite Laptop 2)	$103.20		
	Ultralight Laptop	2.56	3 Year Accidental Damage Warranty	3 YR DAMS*	$100.00	UA6H9E	$127.72	5PS0A23193	$76.00		
	Standard/Basic Laptop	2.57	4 Year Accidental Damage Warranty	4 YR DAMS*	$155.00	UB5F8E	$250.29	5PS0L30070	$97.00		
	High End Laptop	2.58	4 Year Accidental Damage Warranty	4 YR DAMS*	$155.00	UA6J0E	$229.69	5PS0A22966	$104.00		
	Elite Laptop 1 & 2	2.59	4 Year Accidental Damage Warranty	4 YR DAMS*	$155.00	U02C2E	$298.70	5PS1H31762 (For Elite Laptop 1)	$144.00		
								5PS0V07113 (For Elite Laptop 2)	$159.20		
	Ultralight Laptop	2.60	4 Year Accidental Damage Warranty	4 YR DAMS*	$155.00	UA6J0E	$229.69	5PS0A22966	$104.00		
	Standard/Basic Laptop	2.61	5 Year Accidental Damage Warranty	5 YR DAMS*	$225.00	UB5F9E	$437.75	5PS0K27092	$132.00		
	High End Laptop	2.62	5 Year Accidental Damage Warranty	5 YR DAMS*	$225.00	UA6J1E	$379.04	5PS0K18187	$125.00		
	Elite Laptop 1 & 2	2.63	5 Year Accidental Damage Warranty	5 YR DAMS*	$225.00	U02C3E	$545.90	5PS1H31752 (For Elite Laptop 1)	$125.00		
								5PS0V07056 (For Elite Laptop 2)	$175.20		
	Ultralight Laptop	2.64	5 Year Accidental Damage Warranty	5 YR DAMS*	$225.00	UA6J1E	$379.04	5PS0K18187	$125.00		

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
2-in-1 Laptops / Tablets	2-in-1 Laptop / Tablet	3.03	Docking Station	210-AZBG	$165.00	5TW13AA	$187.46	40AY0090US	$176.00		
	2-in-1 Laptop / Tablet	3.04	AC Adapter / Power Supply	492-BBME	$30.00	1HE07AA	$28.84	4X20V24674	$56.00		
	2-in-1 Laptop / Tablet	3.05	Nylon Carrying Case	460-BCMK	$20.00	1X645AA	$20.60	4X40N18008	$17.00		
	2-in-1 Laptop / Tablet	3.06	Laptop Backpack (nylon,water-resistant)	460-BCTJ	$20.84	1X644AA	$18.54	GX40Q17228	$18.00		
	2-in-1 Laptop / Tablet	3.07	Monitor Stand (can be a combo docking station & monitor stand)			PA235U	$37.15				
	2-in-1 Laptop / Tablet	3.08	Mouse, USB, 2-button, Wireless	570-AALK	$15.98	3B4Q5AA#ABA	$21.63	4Y50R20864	$14.00		
	2-in-1 Laptop / Tablet	3.09	Mouse, Bluetooth	570-ABGW	$24.07	1D0K2AA	$44.29	4Y50X88822	$24.00		
	2-in-1 Laptop / Tablet	3.10	Keyboard, USB, Wireless	580-AJIS (includes mouse)	$32.06	45U14AA	$25.75	4X30H56841	$32.00		
	2-in-1 Laptop / Tablet	3.11	Keyboard, Bluetooth	A8622614	$32.06	920-003051	$21.54	4Y40X49493	$80.00		
	2-in-1 Laptop / Tablet	3.12	Keyboard and Mouse Combo, USB, Wireless	580-AJIS	$32.06	3M165AA	$86.52	4X30M39458	$36.00		
	2-in-1 Laptop / Tablet	3.13	Auto Adapter	450-AAYR	$58.29	1P3K6AA	$17.51				
	2-in-1 Laptop / Tablet	3.14	Stylus	750-ADQK	$45.00	6SG43AA	$78.28	4X80H34887	$35.00		
	2-in-1 Laptop / Tablet	3.15	USB External DVD+/-RW Drive	429-AAUQ	$34.74	F2B56AA	$32.96	4XA0E97775	$54.00		
	2-in-1 Laptop / Tablet	3.16	Resource CDs	Downloadable	$0.00	Downloadable	$0.00	Downloadable	$0.00		
	2-in-1 Laptop / Tablet	3.17	4th Year Next Business Day, On-site w/hard drive retention warranty	4 year	$90.00	UE340E	$136.99	5WS0T36185+ 5PS0G79465	$178.40		
	2-in-1 Laptop / Tablet	3.18	5th Year Next Business Day, On-site w/hard drive retention warranty	5 year	$120.00	UE341E	$180.25	5WS0T36204+ 5PS0K18198	$287.20		
	2-in-1 Laptop / Tablet	3.19	3 Year Accidental Damage Warranty	3 YR DAMS*	$100.00	UL741E	$164.80	5PS0A23193	$76.00		
	2-in-1 Laptop / Tablet	3.20	4 Year Accidental Damage Warranty	4 YR DAMS*	$155.00	UL742E	$298.70	5PS0A22966	$104.00		

Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
2-in-1 Laptops / Tablets	2-in-1 Laptop / Tablet	3.21	5 Year Accidental Damage Warranty	5 YR DAMS*	$225.00	UL743E	$494.40	5PS0K18187	$125.00		
	2-in-1 Laptop / Tablet	3.22	3YR. Extended Battery Warranty to match 3YR Device warranty	3 YR Battery	$80.00	Included w Standard Warranty	$0.00	5WS0A23013	$28.00		
EDU Chrome-books	EDU Chromebook	4.05	3 Year Mail-in Service Warranty	3 year Mail-in	$49.00	UQ990E	$28.84	5WS0N75691	$32.00		
	EDU Chromebook	4.06	4 Year Mail-in Service Warranty	4 year Mail-in	$64.00	UQ996E	$67.98	5WS0N75564	$40.00		
	EDU Chromebook	4.07	3 Year Basic Hardware Support and 3 Year Battery Warranty	3 year Basic & 3 YR Battery	$155.00	UQ990E	$28.84	5WS0N75564 + 5WS0N75551	$52.00		
	EDU Chromebook	4.08	4 Year Basic Hardware Support and 4 Year Battery Warranty	4 year Basic & 3 YR Battery	$174.00	U9UX0E	$33.99				
	EDU Chromebook	4.09	3 Year Enhanced/Pro Hardware Support and 3 Year Battery Warranty	3 year ProSupport & 3 YR Battery	$255.00	UQ990E	$28.84				
	EDU Chromebook	4.10	3 Year Enhanced/Pro Hardware Support and 4 Year Battery Warranty	4 year ProSupport & 3 YR Battery	$280.00	U9UX0E	$33.99				
	EDU Chromebook	4.11	AC Adapter / Power Supply	492-BCNW	$30.00	1MZ01AA	$20.60	4X20M26252	$43.99		
	EDU Chromebook	4.12	USB Headset for Students	A8419917	$12.89	T1A67AA	$14.42	4XD0X88524	$23.99		

Segment	Configuration		Accessory Item Description	Dell Vendor Part Number	Dell Volume Purchase Unit Price	HP Vendor Part Number	HP Volume Purchase Unit Price	Lenovo Vendor Part Number	Lenovo Volume Purchase Unit Price	Microsoft Vendor Part Number	Microsoft Volume Purchase Unit Price
EDU Chrome-books	EDU Chromebook	4.13	EDU Chromebook Standard White Glove Services: Includes Asset Tagging, OS upgrading; Enrolling/Registering device in school system's Google domain	Tied to Chromebook model – **Contact Dell for quote**	$24.00			5TS1B66173+ 5TS1B66156+ 5TS1B66159 (Must order all 3 parts)	$27.00		
	EDU Chromebook	4.14	EDU Chromebook White Glove Service: Includes Asset Tagging, **Etching**, OS upgrading; Enrolling/Registering device in school system's Google domain	White Glove	$61.00	ADT1005	$10.00	5TS1B66156	$47.08		
	EDU Chromebook	4.15	Expanded EDU Chromebook OS Configuration Services: Includes Google enrollment, Asset tag, Asset Report, Laser Etching, Box Label, liftgate with Advance Notify, Depalletization, Inside Delivery, Trash Removal, Multi-Pack packaging	Tied to Chromebook model – **Contact Dell for quote**	$40.50						
	EDU Chromebook	4.16	Etching	Tied to Chromebook model – **Contact Dell for quote**	$37.00	ADT1006	$5.00	TBD	Contact Lenovo for pricing		
Monitor Accessories	All Monitor Options	5.09	Speaker Bar to work with all monitor configurations	AC235455	$25.04	5UU40AA	$31.93	0A36190	$24.00		
						32C42AA (for use with Z monitors only – 5.3 and 5.4)	$55.62				
Misc. Adapters & Options	All Desktop and Laptop Configurations	8.01	HDMI to HDMI Adapter	A7657890	$7.97	T6F94AA	$10.30	4X91D96900	$12.00		

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Segment	Configuration		Accessory Item Description	Dell		HP		Lenovo		Microsoft	
				Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price	Vendor Part Number	Volume Purchase Unit Price
Misc. Adapters & Options	All Desktop and Laptop Configurations	8.02	DisplayPort to HDMI Adapter	A9176308	$17.19	F3W43AA	$11.33	4X90R61023	$37.60		
	All Desktop and Laptop Configurations	8.03	USB Gigabit Ethernet Dongle	A7126058	$25.79	4Z7Z7AA	$12.36	4X91D96891	$14.40		
	All Desktop and Laptop Configurations	8.04	USB-C to USB-A 3.0 Adapter	470-ABNE	$14.65	N2Z63AA	$20.60	4X90Q59481	$12.00		
	All Desktop and Laptop Configurations	8.05	USB-C to Ethernet Adapter	470-ABND	$26.23	V7W66AA	$15.45	4X91D96889	$24.00	JWM-00001	$35.19
	All Desktop and Laptop Configurations	8.06	USB-C to HDMI 2.0 Adapter	470-ABMZ	$32.45	1WC36AA	$13.39	4X90R61022	$40.00	HFP-00001	$43.99
	All Desktop and Laptop Configurations	8.07	USB-C to DisplayPort Adapter	470-ACFC	$39.99	N9K78AA	$23.69	4X91D96887	$36.00	JWG-00001	$39.59
	All Desktop and Laptop Configurations	8.08	External Hard Drive – 1 TB	AB407941	$50.00	STKB1000400	$61.89	4XB0W79582	$400.00		
	All Desktop and Laptop Configurations	8.09									
	All Desktop and Laptop Configurations	8.10	HDMI Cable 3ft (M/M)	A8061362	$10.44						
	All Desktop and Laptop Configurations	8.11	DisplayPort to HDMI (4K) Active Adapter (M/F)	A7719636	$20.99						
	All Desktop and Laptop Configurations	8.12	DP to DP cable	A7639742	$18.49	VN567AA	$10.30				
	All Desktop and Laptop Configurations	8.13	DP to HDMI Cable	AA419443	$26.82						
	All Desktop and Laptop Configurations	8.14	USB-C to USB-C 100w cable			5AR72AA	$11.33				

Appendix B

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This Appendix contains the detailed technical specifications of the awarded configurations.

1.1 Standard/Basic Desktop (Intel)	Dell	HP	Lenovo
Description	Est 4 Year Lifecycle, Entry-Level Word Processing, Spreadsheets, Mail viewing, PDF viewing, Presentation Viewing, etc. Dual Digital Monitor Capable		
Vendor Model Number	Optiplex 7010 SFF	Pro SFF 400 G9	ThinkCentre M70s Gen 3
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel Core i3-13100 (4 Cores/12MB/8T/3.4GHz to 4.5GHz/60W)	Intel Core i3-12100 (4 Cores/12MB/8T/3.3GHz to 4.3GHz/60W)	Intel Core i3-12100 (4 Cores/12MB/8T/3.3GHz to 4.3GHz/60W)
Trusted Platform Module	Yes	Yes	Yes
Memory	16GB (1x16GB) DDR4 non ECC memory, expandable to 64GB	16GB (1x16GB) DDR4 3200 Udimm NECC Memory (system is upgradeable to 64gb by replacing memory with 2 x 32gb dimms)	16 GB DDR4-3200MHz; expandable up to 128GB DDR4-3200
Video Card	Intel Integrated Graphics	Intel UHD graphics supporting 2 Digital monitors	Integrated Graphics with support up to 4 independent displays via onboard ports
1st Hard Drive	AGENCY CAN CHOOSE EITHER: M.2 2230 256GB PCIe NVMe Class 35 SSD OR M.2 2230 512GB PCIe NVMe Class 35 SSD	AGENCY CAN CHOOSE EITHER: 256GB M.2 2280 PCIe NVMe TLC SSD OR 512GB M.2 2280 PCIe NVMe TLC SSD	AGENCY CAN CHOOSE EITHER: 256GB SSD M.2 2280 PCIe Gen4 TLC OR 512GB SSD M.2 2280 PCIe Gen3 TLC
PCIe Slots	2 free slots	Two (2) Free Slots	Two (2) Free Slots
USB Ports	2 USB 2.0 ports, 2 USB 3.2 Gen 1 (front) 2 USB 3.2 Gen 1 ports (rear) 2 USB 2.0 ports with Smart Power On (rear)	Front- One (1) USB-C Port, Three (3) USB-A 10 Gbps Ports Rear- Two (2) USB-A 480Mbs, Three (3) USB-A 5Gbps	Front Ports - 2x USB 3.2 Gen 1, 2x USB 3.2 Gen 2, 1x USB-C 3.2 Gen 1 (15W charging) Rear Ports - 4x USB 2.0
Integrated NIC	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse, Black - USB, 2-button, optical Mouse with scroll	HP Black 125 Wired Mouse	USB Calliope Mouse Black
Audio	Internal Dell business audio speaker	Realtek ALC3252 support 16-24 Bit Stereo	HD Audio, Realtek® ALC897Q-CG codec
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retentions Service	3YR KYD
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT Silver	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	(W) 3.65 x (D) 11.53, (H) 11.42; Weight 8.18lbs	10.6 x 3.7 x12.1 in; 9.25lbs	3.6 x 11.7 x 13.4 inches; 11.7lbs

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1.2 Mid-Range Desktop (Intel Proc)	Dell	HP	Lenovo
Description	Est 6 year Lifecycle, General to Advanced Word Processing, Large Spreadsheets, Mail Viewing, PDF creation, Presentation Creation, etc. Dual Digital Monitor Capable		
Vendor Model Number	Optiplex 7010 SFF	Pro SFF 400 G9	ThinkCentre M80s Gen 3
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel Core i5-13400 (6+4 Cores/20MB/16T/2.5GHz to 4.6GHz/65W)	Intel Core i5-12500 (6 Cores/18MB/12T/3.0GHz to 4.6GHz/65W)	Intel Core i5-12500 (6 Cores/18MB/12T/3.0GHz to 4.6GHz/65W)
Trusted Platform Module	Yes	Yes	Yes
Memory	32GB (1x32GB) DDR4 Non-ECC Memory, expandable to 64GB	32GB (1x32GB) DDR4 3200 Udimm NECC Memory, system is upgradeable to 64GB	32 GB DDR5-4400MHz; expandable up to 128GB DDR5
Video Card	AMD Radeon RX 6300 2GB GDDR6	NVIDIA T400 4GB w/2 mDP to DP Adapters	AMD Radeon™ RX 6400 4GB GDDR6
Cables / Connectors	Not included	Included in configuration are 2 mini-Displayport to Displayport Adapters	Not included
1st Hard Drive	M.2 2230 512GB PCIe NVMe Class 35 SSD	512GB PCIe-4x4 NVMe TLC Solid State Drive	512GB SSD M.2 2280 PCIe Gen4 TLC Opal
PCIe Slots	2 free slots	Two (2) Free Slots	Two (2) Free Slots
USB Ports	2 USB 2.0 ports, 2 USB 3.2 Gen 1 (front) 2 USB 3.2 Gen 1 ports (rear) 2 USB 2.0 ports with Smart Power On (rear)	Front- One (1) USB-C Port, Three (3) USB-A 10 Gbps Ports Rear- Two (2) USB-A 480Mbs, Three (3) USB-A 5Gbps	Front Ports - 1x USB-C 3.2 Gen 2 (support data transfer and 15W charging), 2x USB 3.2 Gen 1, 2x USB 3.2 Gen 2 Rear Ports - 4x USB 3.2 Gen 1
Integrated NIC	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse, Black - USB, 2-button, optical Mouse with scroll	HP Black 125 Wired Mouse	USB Calliope Mouse Black
Audio	Internal Dell business audio speaker	Realtek ALC3252 support 16-24 Bit Stereo	High Definition (HD) Audio, Realtek® ALC897Q-CG codec
Available Expansion Bays	None	Available	Up to four drives, 1x 2.5"/3.5" HDD + 1x 2.5" HDD + 2x M.2 SSD
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT Silver	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	(W) 3.65 x (D) 11.53, (H) 11.42; Weight 8.18lbs	10.6 x 3.7 x12.1in; 9.25lb	3.6 x 11.7 x 13.4 inches; 11.7 lbs

1.3 Workstation 1 (i7 Proc)	Dell	HP	Lenovo
Description	Entry-Level GIS, CAD Design, 3D Modeling, Video Editing, Multiple Virtual Machines, Software Development, Engineering Tasks, Advanced System Management, etc. Support for up to 3 digital monitors		
Vendor Model Number	Precision 3660 Tower	HP Z2 SFF G9	ThinkStation P360 Tower
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel Core i7-12700, 12 Core, 25MB Cache, 2.1Ghz, 4.9Ghz Turbo	Intel Core i7-12700, 12 Core, 25MB Cache, 2.1Ghz, 4.9Ghz Turbo	Intel Core i7-12700, 12 Core, 25MB Cache, 2.1Ghz, 4.9Ghz Turbo
Trusted Platform Module	Yes	Yes	Yes
Memory	64GB, 2x32GB, DDR5 up to 4400MHz UDIMM non-ECC memory, Expandable to 128 GB	64GB (2x32GB) DDR5 4800 UDIMM NECC Memory, upgradeable to 128GB Memory	64 GB DDR5-4400MHz; expandable up to 128GB
Video Card	NVIDIA T400 4 GB 3mDP Graphics	NVIDIA T400 4 GB 3mDP Graphics	NVIDIA T400 4 GB 3mDP Graphics
Cables / Connectors	Not Included	Includes 4 mDP to DP adapters	Not Included
1st Hard Drive	1TB PCIe NVMe Class 40 M.2 SSD	1TB PCIe-4x4 2280 Value M.2 Solid State Drive	1 TB SSD M.2 2280 PCIe Gen4 Performance TLC Opal with RAID support
PCIe Slots	Two (2) Free Slots	Two (2) Free Slots	Two (2) Free Slots
USB Ports	Front Ports: 2x USB 3.2 Type A Gen1 1x USB 3.2 Type C Gen2 (10Gbps) 1x USB 3.2 Type C Gen2 (20Gbps) Rear Ports: 2x USB 2.0 2x USB 3.2 Gen2 (10Gbps) 2x USB 3.2 Type C Gen2 (20Gbps)	Front- (2) Type-A SuperSpeed USB 10Gbps signaling rate port;(2) Type-A SuperSpeed USB 10Gbps signaling rate port; (1) Type-C® SuperSpeed USB 20Gbps signaling rate port Rear- (2) Hi-Speed USB 480Mbps signaling rate port; (3) Type A SuperSpeed USB 5Gbps signaling rate port;(1) Hi-Speed USB 480Mbps signaling rate port	Front Ports: 2x USB 3.2 Gen 1 2x USB 3.2 Gen 2 1x USB-C 3.2 Gen 2 Rear Ports - 4x USB 3.2 Gen 1 (one supports Smart Power On) 1x Single Type-C Ports USB 3.2 Gen 2x2 Adapter 1x Dual Type-A Ports USB 3.0 Adapter
Integrated NIC	Intel® Ethernet Connection I219-LM 10/100/1000	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ45, supports Wake-on-LAN
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse - USB, 2- button, optical Mouse with scroll	HP Wired 320M Mouse	USB Calliope Mouse Black
Audio	Universal Audio jack	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker	High Definition (HD) Audio, Realtek® ALC897Q-CG codec
Expansion Bays	(3) Internal Bays	One (1) available	Up to 2x 3.5" SATA HDD or 4x 2.5" SATA HDD; also supports up to 3x M.2 SSD (2 by onboard, 1 by M.2 to PCIe® adapter)
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Years	3 Year HP Carepack for Disk Retention Service	3YR KYD
Certification	ISV Certified	ISV Certified	ISV Certified
Energy Consumption	Yes, Energy Star	ENERGY STAR® certified	ENERGY STAR certified
Environmental	EPEAT Gold	EPEAT Gold	EPEAT Gold

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Unit dimensions and weight	(H) 14.52in (W) 6.81in (D) 16.53in Weight 18.74lbs	3.95x 15.1x 12.1 in; 11.1lbs	6.7 x 12.4 x 14.8 inches; 21.32 lbs

1.4 Workstation 2 (i9 Proc)	Dell	HP	Lenovo
Description	Entry-Level GIS, CAD Design, 3D Modeling, Video Editing, Multiple Virtual Machines, Software Development, Engineering Tasks, Advanced System Management, etc. Support for up to 3 digital monitors		
Vendor Model Number	Precision 3660 Tower	HP Z2 SFF G9	ThinkStation P360 Tower
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel® Core™ i9-12900 (30MB Cache, 16 Core, 2.4 GHz to 5.1 GHz (65W))	Intel® Core™ i9-12900 (30MB Cache, 16 Core, 2.4 GHz to 5.1 GHz (65W))	Intel® Core™ i9-12900 (30MB Cache, 16 Core, 2.4 GHz to 5.1 GHz (65W))
Trusted Platform Module	Yes	Yes	Yes
Memory	64GB, 2x32GB, DDR5 up to 4400MHz UDIMM non-ECC memory, Expandable to 128 GB	64GB (2x32GB) DDR5 4800 UDIMM NECC Memory, upgradeable to 128GB Memory	64 GB DDR5-4400MHz; expandable up to 128GB
Video Card	Nvidia T1000 8GB, 8GB, 4 mDP to DP adapter	NVIDIA T1000 8 GB 4mDP Graphics	NVIDIA T1000 8 GB 4mDP Graphics
Cables / Connectors	Not Included	Includes 4 mDP to DP adapters	Not Included
1st Hard Drive	1TB PCIe NVMe Class 40 M.2 SSD	HP 1TB PCIe-4x4 2280 Value M.2 Solid State Drive	1 TB SSD M.2 2280 PCIe Gen4 Performance TLC Opal with RAID support
PCIe Slots	Two (2) Free Slots	Two (2) Free Slots	Two (2) Free Slots
USB Ports	Front Ports: 2x USB 3.2 Type A Gen1 1x USB 3.2 Type C Gen2 (10Gbps) 1x USB 3.2 Type C Gen2 (20Gbps) Rear Ports: 2x USB 2.0 2x USB 3.2 Gen2 (10Gbps) 2x USB 3.2 Type C Gen2 (20Gbps)	Front- (2) Type-A SuperSpeed USB 10Gbps signaling rate port;(2) Type-A SuperSpeed USB 10Gbps signaling rate port; (1) Type-C® SuperSpeed USB 20Gbps signaling rate port Rear- (2) Hi-Speed USB 480Mbps signaling rate port; (3) Type A SuperSpeed USB 5Gbps signaling rate port;(1) Hi-Speed USB 480Mbps signaling rate port	Front Ports: 2x USB 3.2 Gen 1 2x USB 3.2 Gen 2 1x USB-C 3.2 Gen 2 Rear Ports - 4x USB 3.2 Gen 1 (one supports Smart Power On) 1x Single Type-C Ports USB 3.2 Gen 2x2 Adapter 1x Dual Type-A Ports USB 3.0 Adapter
Integrated NIC	Intel Ethernet Connection I219-LM 10/100/1000	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ45, supports Wake-on-LAN
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse - USB, 2- button, optical Mouse with scroll	HP Wired 320M Mouse	USB Calliope Mouse Black
Audio	Universal Audio jack	Realtek ALC3205-VA2-CG, 2.0W internal mono speaker	High Definition (HD) Audio, Realtek® ALC897Q-CG codec
Expansion Bays	(3) Internal Bays	One (1) available	Up to 2x 3.5" SATA HDD or 4x 2.5" SATA HDD; also supports up to 3x M.2 SSD (2 by onboard, 1 by M.2 to PCIe® adapter)
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Years	Includes 3 Year HP Carepack for Disk Retentions Service	3YR KYD
Certification	ISV Certified	ISV Certified	ISV Certified

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Energy Consumption	Yes, Energy Star	ENERGY STAR® certified	ENERGY STAR certified
Environmental	EPEAT Gold	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	(H) 14.52in (W) 6.81in (D) 16.53in Weight 18.74lbs	3.95x 15.1x 12.1 in; 11.1lbs	6.7 x 12.4 x 14.8 inches; 21.32 lbs

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1.5a Micro/Tiny (Intel i3 Proc, 256GB HD)	Dell	HP	Lenovo
Description	Compact business class PC designed for basic tasks such as Entry-Level Word Processing, Spreadsheets, Mail viewing, PDF viewing, Presentation Viewing, etc.		
Vendor Model Number	OptiPlex 7010 Micro	HP Pro Mini 400 G9	ThinkCentre M70q Gen 3
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel Core i3-13100T (4+0 Cores/12MB/8T/2.5GHz to 4.2GHz/35W)	Intel Core i3-12100T (4 Cores/12MB/8T/2.2GHz to 4.1GHz/35W)	Intel Core i3-12100T (4 Cores/12MB/8T/2.2GHz to 4.1GHz/35W)
Trusted Platform Module	Yes	Yes	Yes
Memory	16GB (1x16GB) DDR4 non ECC memory with free slots, expandable to 64.0GB	16GB (1x16GB) DDR4 3200 SODIMM Memory, (system is upgradeable to 64gb by replacing memory with 2 x 32gb dimms)	16 GB DDR4-3200MHz; expandable up to 64GB DDR4-3200
Video Card	Intel Integrated Graphics	Intel® UHD Graphics 630, supports dual digital monitor support with two Displayport 1.4 Ports	Integrated Graphics with support for 2 independent displays
1st Hard Drive	M.2 256GB PCIe NVMe Class 35 SSD	256GB M.2 2280 PCIe NVMe TLC SSD	256 GB SSD M.2 2280 PCIe Gen4 TLC
PCIe Slots	N/A	N/A	N/A
USB Ports	2 USB 3.2 Gen 1 (front) 2 USB 3.2 Gen 1 ports (rear) 1 USB 2.0 ports with Smart Power On (rear)	Front- One (1) USB-C Port, Two (2) USB-A 10 Gbps Rear- Standard Two (2) USB-A 5Gbps, One (1) USB-A 10bps; Added Two (2) USB-A 480Mbps	Front Ports - 1x USB 3.2 Gen 2 1x USB 3.2 Gen 2 (Always On and 5V@2.1A charging) 1x USB-C 3.2 Gen 1 (support data transfer and 5V@0.9A charging) Rear Ports - 1x USB 2.0 1x USB 3.2 Gen 1 2x USB 3.2 Gen 2
Integrated NIC	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse, Black - USB, 2-button, optical Mouse with scroll	HP Black 125Mouse	USB Calliope Mouse Black
Audio	Internal Speaker	Realtek ALC3Audio	HD Audio, Realtek® ALC256VB codec
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT Registered Gold	EPEAT Gold	EPEAT Gold rating
Unit dimensions and weight	(W) 1.42, (D) 7.00, (H) 7.17, Weight 2.95lbs	6.97 x 6.89 x 1.34 in; 3.13lb	7.05 x 7.2 x 1.44 inches; 2.76lbs

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1.5b Micro/Tiny (Intel i5 Proc, 512GB HD)	Dell	HP	Lenovo
Description	Compact business class PC designed for basic tasks such as Entry-Level Word Processing, Spreadsheets, Mail viewing, PDF viewing, Presentation Viewing, etc.		
Vendor Model Number	OptiPlex 7010 Micro	HP Pro Mini 400 G9	ThinkCentre M70q Gen 3
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64
Processor	Intel Core i5-13500T (6+8 Cores/24MB/20T/1.6GHz to 4.6GHz/35W)	Intel Core i5-12500T (6 Cores/18MB/12T/2.0GHz to 4.4GHz/35W)	Intel Core i5-12500T (6 Cores/18MB/12T/2.0GHz to 4.4GHz/35W)
Trusted Platform Module	Yes	Yes	Yes
Memory	16GB (1x16GB) DDR4 non ECC memory with free slots, expandable to 64.0GB	16GB (1x16GB) DDR4 3200 SODIMM Memory (system is upgradeable to 64gb by replacing memory with 2 x 32gb dimms)	16 GB DDR4-3200MHz; expandable up to 64GB DDR4-3200
Video Card	Intel Integrated Graphics	Intel® UHD Graphics 630, supports dual digital monitor support with two Displayport 1.4 Ports	Integrated Graphics with support for 2 independent displays
1st Hard Drive	M.2 2230 512GB PCIe NVMe Class 35 SSD	512GB PCIe-4x4 NVMe TLS Solid State Drive	512GB SSD M.2 2280 PCIe Gen4 TLC Opal
PCIe Slots	N/A	N/A	N/A
USB Ports	2 USB 3.2 Gen 1 (front) 2 USB 3.2 Gen 1 ports (rear) 1 USB 2.0 ports with Smart Power On (rear)	Front- One (1) USB-C Port, Two (2) USB-A 10 Gbps Rear- Standard Two (2) USB-A 5Gbps, One (1) USB-A 10bps; Added Two (2) USB-A 480Mbps	Front Ports - 1x USB 3.2 Gen 2 1x USB 3.2 Gen 2 (Always On and 5V@2.1A charging) 1x USB-C 3.2 Gen 1 (support data transfer and 5V@0.9A charging) Rear Ports - 1x USB 2.0 1x USB 3.2 Gen 1 2x USB 3.2 Gen 2
Integrated NIC	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Integrated Gigabit Ethernet (10/100/1000) Card, Wake on LAN	Gigabit Ethernet, Intel Ethernet Connection I219-LM, 1x RJ-45, supports Wake-on-LAN
Internal Wireless Card	Intel(R) AX211 Wi-Fi 6E 2x2 and Bluetooth 5.3	Intel AX211 Wi-Fi 6e Vpro 160 MHz + Bluetooth 5.3 WLAN	Intel® Wireless-AC 9560 2x2 AC & Bluetooth® 5.0
Keyboard	Dell KB216 Wired Multi-Media Keyboard	HP USB 320K Keyboard	USB, Traditional, Black - English (US)
Mouse	Dell MS116 Wired Mouse, Black - USB, 2-button, optical Mouse with scroll	HP Black 125Mouse	USB Calliope Mouse Black
Audio	Internal Speaker	Realtek ALC3Audio	HD Audio, Realtek® ALC256VB codec
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT Registered Gold	EPEAT Gold	EPEAT Gold rating
Unit dimensions and weight	(W) 1.42, (D) 7.00, (H) 7.17, Weight 2.95lbs	6.97 x 6.89 x 1.34 in; 3.13lb	7.05 x 7.2 x 1.44 inches; 2.76lbs

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2.1a-b Standard/Basic Laptop (Intel)	Dell	HP	Lenovo	Microsoft
Description	General Purpose Business Class Laptop, support for up to 3 monitors (including laptop screen)			
Vendor Model Number	Latitude 3440	Probook 440 G9	ThinkPad E14 Gen 4	Surface 4 Laptop 15" **(Available in Black or Platinum)**
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	Windows 11 Pro 64 bit (can be downgraded to Windows 10 Pro 64 bit by end user)
Processor	Intel® Core™ i3-1215U (1.2 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 10 MB L3 cache, 6 cores, 8 threads)	Intel® Core™ i3-1215U (1.2 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 10 MB L3 cache, 6 cores, 8 threads)	Intel® Core™ i3-1215U (1.2 GHz base frequency, up to 4.4 GHz with Intel® Turbo Boost Technology, 10 MB L3 cache, 6 cores, 8 threads)	Quad Core 11th Intel® Core™ i7-1185G7 processor (up to 4.8GHz, 12MB cache)
Trusted Platform Module	Yes	Yes	Yes	Yes
Memory	16GB,1x16GB, DDR4 Non-ECC, with free slot, expandable to 32GB	16GB (1x16GB) DDR4 3200; expandable to 32GB	16.0GB DDR4-3200Mhz *Note: Laptop has one memory slot. If 32GB is needed, purchase either of the following:* *PT# 21E4S0P400, cost - $818.00 (ThinkPad E14 G4 40GB, non-touch)* *or* *PT# 21E4S0P200, cost - $881.00 (ThinkPad E14 G4 40GB, touchscreen)*	16.0GB **(not expandable)**
Video	Intel Integrated Graphics	Intel® UHD Graphics	Intel Integrated Graphics	Intel® Iris® Xe Graphics
Video Display	AGENCY CAN CHOOSE EITHER: 14" FHD (1920 x 1080) AG **Non-Touch**, 250nits, Camera w/shutter & Microphone, WLAN Capable OR 14" FHD (1920 x 1080) AG Embedded **Touch**, 300 nits, HD+IR Camera w/shutter & Microphone, WLAN	AGENCY CAN CHOOSE EITHER: 14.0 Inch FHD (1920 x 1080) Anti-Glare LED **(Non-Touch)** OR 14.0 Inch AG FHD(1920 x1080) LED UWVA **Touchscreen**	AGENCY CAN CHOOSE EITHER: 14" FHD (1920 x 1080), TN, Anti-Glare, Non-Touch, 250 nits **(Non-Touch)** OR 14" FHD (1920 x 1080), IPS, Anti-Glare, **Touch**, 45%NTSC, 300 nits, 60Hz	15" PixelSense™ Display LED Resolution: 2496 x 1664 (201 PPI) Aspect ratio: 3:2 Surface Pen* enabled Touchscreen
Hard Drive	M.2 256GB PCIe NVMe SSD	256GB PCIe NVMe Value SSD	256GB SSD, M.2 2242, PCIe-NVMe, TLC	256GB SSD
USB Ports	1 USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/ Power Delivery 2 USB 3.2 Gen 1 port 1 USB 3.2 Gen 1 port w/PowerShare	Left Side- One (1) USB A Port Right side- 1(USB-C), Two (2) USB-A 5 Gbps 3.2 Gen 1 ports	1x USB 2.0 1x USB 3.2 Gen 1 (Always On) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4)	1 x USB-C 1 x USB-A
HDMI or DisplayPort or USB-C	HDMI 1.4a	(1) HDMI, (1) SuperSpeed USB Type-C® 10Gbps	1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x HDMI, up to 4K/60Hz	Configuration includes USB-C to Display Port Adapter (JWG-00001) *(USB-C to HDMI Adapter (HFP-00001) may be purchased separately)*

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Integrated NIC Port or Mobile Ethernet Adapter included	Integrated ethernet RJ45	Intel Integrated Gigabit Ethernet (10,100,1000), Wake on LAN	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN	Mobile Ethernet Adapter (must be added to order – part# JWM-00001)
Bluetooth	Bluetooth 5.3	Bluetooth 5.3	Bluetooth 5.0	Bluetooth 5.0
Internal Wireless Adapter	Intel Wi-Fi 6E (6 if 6E unavailable) AX211, 2x2, 802.11ax, Bluetooth	Intel AX211 W-Fi 6E + BT	Intel Wi-Fi 6 AX201 2x2 AX, Bluetooth Version 5.0 or above	Wi-Fi 6: 802.11ax compatible
Webcam	720p at 30 fps HD camera, single integrated microphone	720p HD Camera	720P HD RGB with Microphone	720p HD f2.0 camera (front-facing)
Power	65W AC Adapter, USB Type-C	45 Watt Smart Right Angle AC Adapter	65W USB-C® (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz	AC Power Supply with 6' cord
Battery	3 Cell, 42 Wh, ExpressCharge™ Capable	Long Life 42Whr Fast Charge 3 cell Battery	Integrated Li-Polymer 45Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	47.4Wh, up to 16.5 hours
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	3YR NBD Onsite with Accidental Damage coverage (must be added to order – part# F9W-00162)
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retentions Service	3YR KYD	Included with 3 Year warranty part above
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT® Gold	EPEAT GOLD	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	Height: 0.76 in, Width: 12.7 in, Depth: 8.6 in., 3.40lbs.	12.67 x 8.42 x 0.78 in; 3.03 lb	12.76 x 8.69 x 0.74 inches; 3.51 lbs	13.4" x 9.6" x 0.58", 3.40 lb.

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2.3a-b High End Laptop (Intel, non-vPro)	Dell	HP	Lenovo	Microsoft
Description	Business Class Laptop designed for increased performance and productivity			
Vendor Model Number	Latitude 3540	HP Elitebook 650 G9	ThinkPad L15 Gen 3	Surface Laptop 5 15"
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	Windows 11 Pro 64 bit (can be downgraded to Windows 10 Pro 64 bit by end user)
Processor	Intel Core i7-1355U (12 MB cache, 10 cores, up to 5.00 GHz Turbo)	Intel® Core™ i7-1255U (1.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)	Intel® Core™ i7-1255U (1.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)	Intel® Core™ i7-1265U processor (12MB Cache, up to 4.80 GHz, 10 cores, 12 threads)
Trusted Platform Module	Yes	Yes	Yes	Yes
Memory	32GB, 2x16GB, DDR4 Non-ECC Expandable to 64GB	32GB (1X32GB) DDRR4 3200, expandable to 64GB	32 GB DDR4-3200MHz expandable to 64GB	32.0GB LPDDR5x RAM **(not expandable)**
Video	Intel Iris Xe Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel® Iris® Xe Graphics
Video Display	AGENCY CAN CHOOSE EITHER: 15.6" FHD (1920 x 1080) AG **Non-Touch**, 250nits, Camera w/shutter & Microphone, WLAN Capable OR 15.6" FHD (1920 x 1080) AG Embedded **Touch**, 250 nits, FHD+IR Camera w/shutter & Microphone, WLAN	AGENCY CAN CHOOSE EITHER: 15.6" (1920 x 1080) FHD Anti Glare LED UWVA **(Non-Touch)** OR 15.6" (1920 x 1080) FHD Anti Glare LED UWVA IR **Touchscreen**	AGENCY CAN CHOOSE EITHER: 15.6" FHD (1920 x 1080), IPS, Anti-Glare, Non-touch, 250 nits **(Non-Touch)** OR 15.6" FHD (1920 x 1080), IPS, Anti-Glare, **Touch**, 300 nits	Screen: 15" PixelSense™ Display Resolution: 2496 x 1664 (201 PPI) Aspect ratio: 3:2 Surface Pen* enabled
Hard Drive	M.2 512GB PCIe NVMe SSD	512GB PCIe NVMe TLC SSD	512 GB SSD M.2 2242 PCIe Gen4 TLC Opal	1TB SSD
USB Ports	1 USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery 2 USB 3.2 Gen 1 port 1 USB 3.2 Gen 1 port with PowerShare	Left Side- One (1) USB-A 3.2 Gen 1 port Right Side- One (1) USB-C, Two (2) USB-A 3.2 Gen 1 Ports	Standard Ports 1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 (Always On) 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)	1 x USB-C 4.0/Thunderbolt™ 1 x USB-A 3.1 3.5 mm headphone jack 1 x Surface Connect port
HDMI or DisplayPort OR One (1) USB-C Port	HDMI 1.4a	(1) HDMI, (1) SuperSpeed USB Type-C® 10Gbps	1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery	1 x USB-C Configuration includes USB-C to Display Port Adapter (JWG-00001) *(USB-C to HDMI Adapter (HFP-00001) may be purchased separately)*

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			3.0, and DisplayPort 1.4) 1x HDMI, up to 4K/60Hz	
Integrated NIC Port or Mobile Ethernet Adapter included	Integrated ethernet RJ45	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN)	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN	Mobile Ethernet Adapter (must be added to order – part# JWM-00001)
Bluetooth	Bluetooth 5.3	Bluetooth 5.3	Bluetooth 5.0	Bluetooth 5.1
Internal Wireless Adapter	Realtek Wi-Fi 6 RTL8852BE, 2x2, 802.11ax, Bluetooth	Intel AX 211Wi-Fi 6E + BT	Intel® Wi-Fi 6 AX201 2x2 AX & Bluetooth® 5.0 or above with vPro®	Wi-Fi 6: 802.11ax compatible
Webcam	720p at 30 fps HD camera, single integrated microphone	720p HD Camera+IR Camera	720P HD RGB with Microphone	720p HD f2.0 camera (front-facing)
Power	65W AC Adapter, USB Type-C	45-Watt Smart Right Angle AC Adapter	65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz	AC Power Supply with 6' cord
Battery	3 Cell, 42 Wh, ExpressCharge™ Capable	Long Life 42Whr Fast Charge 3 cell Battery	Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter	47.4Wh, up to 17 hours
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	3YR NBD Onsite with Accidental Damage coverage (must be added to order – part# F9W-00162)
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retentions Service	3YR KYD	Included with 3 Year warranty part above
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT® Gold	EPEAT GOLD	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	Height 0.71, Width 14.1, Depth 9.4 weight 3.9 lbs	14.14 x 9.2 x 0.78 in; 3.83 lbs	14.18 x 9.33 x 0.78 inches; 3.87 lbs.	13.4" x 9.6" x 0.58", 3.44 lbs.

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2.4a-b High End Laptop (Intel, vPro)	Dell	HP	Lenovo	Microsoft
Description	Business Class Laptop designed for increased performance and productivity			
Vendor Model Number	Latitude 5540	Elitebook 650 G9	ThinkPad L15 Gen 3	
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	
Processor	Intel Core i7-1355U, 12 MB cache, 10 cores, up to 5.0 GHz), supports Intel® vPro® Technology	Intel® Core™ i7-1265U (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), supports Intel® vPro® Technology	Intel® Core™ i7-1265U (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), supports Intel® vPro® Technology	
Trusted Platform Module	Yes	Yes	Yes	
Memory	32GB, 2x16GB, DDR4 Non-ECC expandable to 64 GB	32GB (1X32GB) DDRR4 3200, expandable to 64GB	32 GB DDR4-3200MHz expandable to 64GB	
Video	Intel Iris Xe Graphics	Intel UHD Graphics	Intel UHD Graphics	
Video Display	AGENCY CAN CHOOSE EITHER: 15.6" FHD (1920x1080) Anti Glare, Non-Touch, 250 nits, HD Camera, WLAN OR 15.6" FHD (1920x1080) Anti Glare, Touch, 250 nits, FHD IR Camera, WWAN	AGENCY CAN CHOOSE EITHER: 15.6" (1920 x 1080) FHD Anti Glare LED UWVA OR 15.6" FHD AG LED UWVA 250 15.6" (1920 x 1080) FHD Anti Glare LED UWVA Touchscreen	AGENCY CAN CHOOSE EITHER: 15.6" FHD (1920 x 1080), IPS, Anti-Glare, Non-touch, 250 nits **(Non-Touch)** OR 15.6" FHD (1920 x 1080), IPS, Anti-Glare, **Touch**, 300 nits	
Hard Drive	M.2 512GB PCIe NVMe SSD	512GB PCIe 4x4 NVMe TLC SSD	512 GB SSD M.2 2242 PCIe Gen4 TLC Opal	
USB Ports	2x USB Type C Thunderbolt™ 4.0 with Power Delivery & DisplayPort 2x USB 3.2 Gen (1 with Power share)	Left Side- One (1) USB-A 3.2 Gen 1 port Right Side- One (1) USB-C, Two (2) USB-A 3.2 Gen 1 Ports	Standard Ports 1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 (Always On) 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)	
HDMI or DisplayPort	HDMI 2.0	(1) HDMI, (1) Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4);	1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery	

			3.0, and DisplayPort 1.4) 1x HDMI, up to 4K/60Hz	
Integrated NIC Port or Mobile Ethernet Adapter included	Integrated ethernet RJ45	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN)	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN	
Bluetooth	Bluetooth 5.3	Bluetooth 5.3	Bluetooth 5.0	
Internal Wireless Adapter	Intel AX211 WiFi 6e 2x2 AX+ BT 5.3	Intel AX 211Wi-Fi 6E VPRO + BT	Intel® Wi-Fi 6 AX201 2x2 AX & Bluetooth® 5.0 or above with vPro®	
Webcam	720p at 30 fps HD camera, single integrated microphone	720p HD Camera+IR Camera	720P HD RGB with Microphone	
Power	65W Type-C Adapter with 3' Cord	45 Watt Smart Right Angle AC Adapter	65W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz	
Battery	3 Cell, 54 Wh, ExpressCharge™ Capable	Long Life 42Whr Fast Charge 3 cell Battery	Integrated Li-Polymer 42Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter	
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retentions Service	3YR KYD	
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified	
Environmental	EPEAT® GOLD	EPEAT GOLD	EPEAT Gold	
Unit dimensions and weight	14.1" x 0.82" x 9.19", 3.56lbs	14.14 x 9.2 x 0.78 in; 3.83 lbs	14.18 x 9.33 x 0.78 inches; 3.87 lbs	

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2.5 Elite Laptop 1 (32GB System Memory, 4GB Video Memory)	Dell	HP	Lenovo	Microsoft
Description	Mobile Workstation intended for users that have high technology requirements such as video/animation production, application development, etc., support for up to 3 monitors (including laptop screen)			
Vendor Model Number	Mobile Precision 3581	Power 15 G9	ThinkPad P15v Gen 3	
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	
Processor	AGENCY CAN CHOOSE EITHER Intel Core i9-13900H, vPro Enterprise (24MB Cache, 14 Cores, 20 Threads, 2.6 - 5.4 GHz Turbo, 45W) (**non-vPro or vPro disabled**) OR Intel Core i9-13900H, vPro Enterprise (24MB Cache, 14 Cores, 20 Threads, 2.6 - 5.4 GHz Turbo, 45W) (**vPro Enabled**)	AGENCY CAN CHOOSE EITHER Intel® Core i9-12900H, 24MB, 14 Cores, 2.50GHz (**non-vPro or vPro disabled**) OR Intel® Core i9-12900H, 24MB, 14 Cores, 2.50GHz (**vPro Enabled**)	Intel® Core i9-12900H, 24MB, 14 Cores, 2.50GHz (**vPro Enabled**)	
Trusted Platform Module	Yes	Yes	Yes	
Memory	32.0GB (2x16GB), DDR5 4800MHz, expandable to 64GB (system is upgradeable to 64gb by replacing memory with 2 x 32GB DIMMS)	32GB (1 x 32GB) DDR5 SODIMM, upgradeable to 64GB by adding another dimm	32 GB DDR5-4800MHz (SODIMM) (2 x 16 GB) expandable to 64GB	
Video	NVIDIA® RTX 2000 Ada Generation, 8GB GDDR6	NVIDIA RTX A1000, 4 GB, GDDR6	NVIDIA® RTX™ A2000 4GB GDDR6	
Video Display	AGENCY CAN CHOOSE EITHER: 15.6" FHD 1920 x 1080, 60 Hz, 250 nit, **non-touch**, RGB HD Camera and Mic with WLAN OR 15.6" FHD 1920 x 1080, 60 Hz, 250 nit, **touch**, IR FHD EMZA Camera and Mic with WLAN	AGENCY CAN CHOOSE EITHER: 15.6 inch FHD (1920x1080) Anti-Glare LED UWVA 250 for HD Webcam bent **(non-touch)** OR 15.6 inch FHD (1920x1080) Anti-Glare LED UWVA 250 for HD Webcam **Touchscreen** Narrow Bezel bent	AGENCY CAN CHOOSE EITHER: 15.6" FHD (1920 x 1080), IPS, Anti-Glare, Non-Touch, 300 nits **(Non-Touch)** OR 15.6" FHD (1920 x 1080), IPS, Anti-Glare, **Touch**, 300 nits	
Hard Drive	1 TB, M.2 2230, PCIe NVMe, SSD, Class 35	1TB PCIe-4x4 2280 NVMe TLC SSD	1TB SSD M.2 2280 PCIe Gen4 TLC Opal	
USB Ports	USB 3.2 Gen 1 port USB 3.2 Gen 1 port with PowerShare	Left - one (1) USB 3.1 gen 1 Right- one (1) USB-C port, Two (2) USB A 3.1 Gen 1 ports	2x USB 3.2 Gen 1 (one Always On) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4)	
HDMI or DisplayPort	1 HDMI 2.0 port (2) Thunderbolt™ 4 ports 100WType C (Integrated graphics), 130W E5 Type C	(1) HDMI Port; (1) Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate	1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x HDMI, up to 4K/60Hz	

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	(Integrated graphics/discrete graphics)			
Integrated NIC Port or Mobile Ethernet Adapter included	Integrated ethernet RJ45	Integrated Ethernet Port	Integrated Gigabit Ethernet (10,100,1000), Wake on LAN	
Bluetooth	Bluetooth 5.2	Bluetooth 5.3	Bluetooth 5.0	
Internal Wireless Adapter	Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth 5.2	Intel AX211 Wi-Fi 6E vPro 160 MHz +Bluetooth 5.3 WW WLAN	Intel® Wi-Fi 6E AX211 2x2 AX & Bluetooth® 5.0 or above with vPro®	
Webcam	HD Camera, Temporal Noise Reduction, Camera Shutter, Mic	720p HD Camera+IR Camera 8	720P HD RGB with Microphone	
Power	130W Type C Power Adapter	150 Watt Smart PFC Slim AC Adapter	135W AC Adapter Slim (3pin)-US)	
Battery	4 cell, 64 WHr standard lifecycle battery up to 10-12 hours	6 Cell 83 WHr Long Life up to 18hrs	Integrated Li-Polymer 68Wh battery, supports Rapid Charge (charge up to 80% in 1hr)	
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD	
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified	
Environmental	EPEAT® GOLD	EPEAT GOLD	EPEAT GOLD	
Unit dimensions and weight	(H) .89 in front / 1.01 in peak / .97 in rear; (W) 14.09 in;(D) 9.1 in; Weight 3.94 lbs	14.15 x 9.21 x 0.9 in; 4.25lbs	14.43 x 9.84 x 0.89 inches; 4.91lbs	

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2.5a-b Elite Laptop 1 (32GB System Memory, 4GB Video Memory) (ALTERNATE MODEL)	Dell	HP	Lenovo	Microsoft
Description	Mobile Workstation intended for users that have high technology requirements such as video/animation production, application development, etc., support for up to 3 monitors (including laptop screen)			
Vendor Model Number		Zbook Studio 16 G9		
Operating System		Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit		
Processor		AGENCY CAN CHOOSE EITHER Intel® Core i9-12900H, 24MB, 14 Cores, 2.50GHz (**non-vPro or vPro disabled**) OR Intel® Core i9-12900H, 24MB, 14 Cores, 2.50GHz (**vPro Enabled**)		
Trusted Platform Module		Yes		
Memory		32GB (2 x 16GB) DDR5 SODIMM, upgradeable to 64GB by replacing memory		
Video		NVIDIA RTX A1000, 4 GB, GDDR6		
Video Display		AGENCY CAN CHOOSE EITHER: 16.0 AG WUXGA WVA (1920 x 1200), WLED+LBL400bntLCDPanel **(non-touch)** OR 16.0 BV WUXGA UWVAL (1920x1280), wBluLt 400 **Touch** bnt OLEDPa		
Hard Drive		1TB PCIe-4x4 2280 NVMe TLC SSD		
USB Ports		Left side: 2 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4, HP Sleep and Charge) ; Right side: 1 Super Speed USB Type-A 5Gbps signaling rate (charging); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4		
HDMI or DisplayPort		(1) HDMI Port		
Integrated NIC Port or Mobile Ethernet Adapter included		Added USB-C to RJ45 adapter		
Bluetooth		Bluetooth 5.3		

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Internal Wireless Adapter		Intel AX211 Wi-Fi 6E vPro 160 MHz +Bluetooth 5.3 WW WLAN		
Webcam		720p HD Camera+IR Camera 8		
Power		150 Watt Smart PFC Slim AC Adapter		
Battery		XL 86Whr FstCrg 6 cell Batt up to 18hrs		
Hardware Warranty		Includes 3 Year Next Business Day, On-Site		
Keep Hard Drive		Includes 3 Year HP Carepack for Disk Retention Service		
Energy Consumption		ENERGY STAR® certified		
Environmental		EPEAT GOLD		
Unit dimensions and weight		14.02 x 9.54 x 0.76 in; 3.92lbs		

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2.6 Elite Laptop 2 (64GB System Memory, 8GB Video Memory)	Dell	HP	Lenovo	Microsoft
Description	Mobile Workstation intended for users that have high technology requirements such as video/animation production, application development, etc., support for up to 3 monitors (including laptop screen)			
Vendor Model Number	Mobile Precision 7680	Fury 16 G9	ThinkPad P16 Gen 1	
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	
Processor	AGENCY CAN CHOOSE EITHER Intel Core i9-13950HX, 36MB Cache, 32 Threads, 24 Cores (8P+16E) up to 5.5GHz, 55w (**non-vPro or vPro disabled**) OR Intel Core i9-13950HX, 36MB Cache, 32 Threads, 24 Cores (8P+16E) up to 5.5GHz, 55w (**vPro Enabled**)	AGENCY CAN CHOOSE EITHER Intel Core i9-12950HX, 30MB Cache, 24 Threads, 16 Core, 2.3GHz to 5.0GHz (**non-vPro or vPro disabled**) OR Intel Core i9-12950HX, 30MB Cache, 24 Threads, 16 Core, 2.3GHz to 5.0GHz (**vPro Enabled**)	AGENCY CAN CHOOSE EITHER Intel® Core™ i9-12900HX Processor (2.30 GHz up to 5.00 GHz) (**non-vPro or vPro disabled**) OR Intel Core i9-12950HX, 30MB Cache, 24 Threads, 16 Core, 2.3GHz to 5.0GHz (**vPro Enabled**)	
Trusted Platform Module	Yes	Yes	Yes	
Memory	64GB, 2x32GB 5200MHz SODIMM, non-ECC, expandable to 128GB (system is upgradeable to 128GB by replacing memory with 1 x 128GB CAMM module)	64GB (2x32GB) DDR5 4800 SODIMM Memory, upgradeable to 128GB	64 GB DDR5-4800MHz (SODIMM) (2 x 32 GB) expandable to 128GB	
Video	NVIDIA RTX 2000 Ada 8GB GDDR6	NVIDIA RTX A2000 8GB GDDR6	NVIDIA RTX A2000 8GB GDDR6	
Video Display	AGENCY CAN CHOOSE EITHER: 16" FHD+ 1920x1200, WVA, 60Hz, anti-glare, non-touch, 45% NTSC, 250 nits, RGB Camera, with Mic OR 16" UHD+ 3840x2400 OLED, WVA, 60Hz, anti-glare, touch,100% DCI-P3, 400 nits, IR Camera, with Mic	AGENCY CAN CHOOSE EITHER: 16.0 inch AG WUXGA (1920x1200) WLED+LBL UWVA 400 w5MP IR bnt LCD Panel **(Non-Touch)** OR 16.0 inch AG WUXGA (1920x1200) WLED+LBL UWVA 400 w5MP IR **Touchscreen** bnt LCD Panel	AGENCY CAN CHOOSE EITHER: 16" WUXGA (1920 x 1200), IPS, Anti-Glare, 100%sRGB, 300 nits, Low Blue Light **(Non-Touch)** OR 16" WQUXGA (3840 x 2400), OLED, Anti-Reflection/Anti-Smudge, **Touch**, 100%DCI-P3, 400 nits	
Hard Drive	M.2 2280 1 TB, Gen 4 PCIe x4 NVMe, Solid State Drive	1TB PCIe-4x4 2280 NVMe TLC Solid State Drive	1 TB SSD M.2 2280 PCIe Gen4 TLC Opal	
USB Ports	USB 3.2 Gen 2 Type-C port with DP-alt mode USB 3.2 Type-A port with PowerShare USB 3.2 Gen 1 port	Left- Two(2) USB-C Ports; one (1) mDP port Right- Two (2) USB-A ports	2x USB 3.2 Gen 1 (one Always On) 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 2x Thunderbolt 4 / USB4® 40Gbps (support	

			data transfer, Power Delivery 3.0 and DisplayPort 1.4)	
HDMI or DisplayPort	(1) HDMI 2.1 port (2) ThunderBolt™ 4 ports with (USB Type-C™)	(1) HDMI Port; (2) Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4,	1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 2x Thunderbolt 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)	
Integrated NIC Port or Mobile Ethernet Adapter included	Integrated RJ-45 10/100/1000	Integrated Ethernet Port	Included Mobile Ethernet Adapter	
Bluetooth	Bluetooth 5.2	Bluetooth 5.3	Bluetooth 5.0	
Internal Wireless Adapter	Intel Wifi 6E (6GHz) AX211 2x2 with Bluetooth 5.2	Intel AX211 Wi-Fi 6E vPro 160 MHz +Bluetooth 5.3 WW WLAN	Intel AX211 Wi-Fi 6E vPro 160 MHz +Bluetooth 5.3 WW WLAN	
Webcam	FHD Camera, No ExpressSign-In, Camera Shutter, Mic	720p HD Camera+IR Camera	FHD RGB with Microphone	
Power	180W SFF Power Adapter with 3' cord	200W Slim 4.5mm PFC Smart (3-pin) AC Adapter	170W AC Adapter Slim (3pin)-US	
Battery	6 Cell 83Whr ExpressCharge up to 12 hours	XL-Long Life 95Whr Fast Charge 8 cell Battery up to 15hrs	Integrated Li-Polymer 94Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 230W AC adapter	
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	
Keep Hard Drive	Keep Your Hard Drive, 3 Year	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD	
Energy Consumption	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified	
Environmental	EPEAT® GOLD	EPEAT GOLD	EPEAT GOLD	
Unit dimensions and weight	(H)Rear - .92in; (H)Front - .88in; (W) - 14.02 in (D) - 10.18in; Weight - 5.75lb	14.29 x 9.52 x 1.12; 5.27lbs	14.3 x 10.5 x 1.2 inches; 6.5 lbs	

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2.7 Ultralight Laptop	Dell	HP	Lenovo	Microsoft
Description	Business Class Laptop that is thin and lightweight for easier portability, under 3.4lbs.			
Vendor Model Number	Latitude 5440	Elitebook 630 G9	ThinkPad L13 Gen 3	Surface 5 Laptop 13" (Alternate Model)
Operating System	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64 English	Windows 11 Pro 64 bit (can be downgraded to Windows 10 Pro 64 bit by end user)
Processor	AGENCY CAN CHOOSE EITHER Intel Core i7-1355U, 12 MB cache, 10 cores, up to 5.0 GHz **(non-vPro or vPro disabled)** OR Intel Core i7-1355U, 12 MB cache, 10 cores, up to 5.0 GHz **(vPro Enabled)**	AGENCY CAN CHOOSE EITHER Intel Core i7-1255U (10 Core, 12 MB Cache, 12 Threads, up to 4.70 GHz) **(non-vPro or vPro disabled)** OR Intel® Core™ i7-1265U (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), supports **Intel® vPro®** Technology	AGENCY CAN CHOOSE EITHER Intel Core i7-1255U (10 Core, 12 MB Cache, 12 Threads, up to 4.70 GHz) **(non-vPro or vPro disabled)** OR Intel® Core™ i7-1265U (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads), supports **Intel® vPro®** Technology	Intel® Core™ i7-1265U (1.8 GHz base frequency, up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads) **(non-vPro or vPro disabled)**
Trusted Platform Module	Yes	Yes	Yes	Yes
Memory	16GB,1x16GB, DDR4 Non-ECC	16GB (1x16GB) DDR4 3200	16.0GB, DDR4 3200MHz	16.0GB LPDDR5x RAM
Video	Intel Iris Xe Graphics	Intel UHD Graphics	Intel Integrated Iris Xe Graphics	Intel® Iris® Xe Graphics
Video Display	14.0" FHD (1920x1080) Anti Glare, Touch, WVA, 300 nits, FHD IR Camera, WWAN	13.3" Anti Glare FHD (1920 x 1080) LED UWVA	13.3" WUXGA (1920 x 1200), IPS, Anti-Glare, Touch, 72%NTSC, 300 nits	13.5" PixelSense™ Display 2256 x 1504 (201 PPI) Aspect ratio: 3:2
Hard Drive	M.2 512GB PCIe NVMe SSD	512GB PCIe NVMe Value SSD	512 GB SSD M.2 2242 PCIe Gen4 TLC Opal	512GB SSD
USB Ports	2x USB Type C Thunderbolt™ 4.0 with Power Delivery & DisplayPort 2x USB 3.2 Gen (1 with Power share)	Left Side- One (1) USB A Right Side- One (1) USB-C, One (1) USB-A 3.2 Gen 1	1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 (Always On) 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)	1 x USB-C 4.0/Thunderbolt™ 1 x USB-A 3.1 3.5 mm headphone jack 1 x Surface Connect port
HDMI or DisplayPort or USB-C Port	1 x HDMI 2.0	(1) HDMI Port; (1) SuperSpeed USB Type-C® 10Gbps.	1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4) 1x HDMI, up to 4K/60Hz	1 x USB-C
Integrated NIC Port or Mobile Ethernet Adapter included	Integrated ethernet RJ45	Integrated Ethernet Port	Included Mobile Ethernet Adapter	Mobile Ethernet Adapter (must be added to order – part# JWM-00001)

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Bluetooth	Bluetooth 5.3	Bluetooth 5.3	Bluetooth 5.0	Bluetooth 5.1
Internal Wireless Adapter	Intel AX211 WiFi 6e 2x2 AX+ BT 5.3	Intel AX211 WiFi 6e 2x2 AX+ BT 5.2	Intel® Wi-Fi 6 AX201 2x2 AX & Bluetooth® 5.0 or above with vPro®	Wi-Fi 6: 802.11ax compatible
Webcam	FHD/IR Camera, Temporal Noise Reduction, Camera Shutter, Mic	720p HD Camera+IR Camera	FHD RGB with Microphone	720p HD f2.0 camera (front-facing)
Power	65W Type-C Adapter with 3' Cord	45W Power adapter w/ 1.0M Cord	65W USB-C 90%PCC AC Adapter Black (2pin) - US	AC Power Supply with 6' cord
Battery	54WHR, 3 Cell Battery Express Charge Capable	Long Life 42Whr Fast Charge 3 cell Battery	Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter	47WHr, up to 18 hours
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	Includes 3 Year Next Business Day, On-Site	3 Year Premier Priority/Advanced Support, NBD Onsite	3YR NBD Onsite with Accidental Damage coverage (must be added to order – part# F9W-00162)
Keep Hard Drive	Keep Your Hard Drive, 3 Year.	Includes 3 Year HP Carepack for Disk Retention Service	3YR KYD	Included with 3 Year warranty part above
Energy Consumption	Energy Star	ENERGY STAR® certified	ENERGY STAR® certified	ENERGY STAR® certified
Environmental	EPEAT Gold	EPEAT GOLD	EPEAT Gold	EPEAT Gold
Unit dimensions and weight	Height: 0.76in, Width 12.65 in, Depth 8.35 in, Weight 3.06lbs	12.08 x 8.2 x 0.62in; 2.82lb	12.0 x 8.58 x 0.68 inches; 2.78lbs	12.1" x 8.8" x 0.57", 2.86 lbs

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3.1 2-in-1 Laptop/Tablet (non-vPro)	Dell	HP	Lenovo	Microsoft
Description	Device that can function in a traditional 'clam-shell' laptop configuration or as a light weight, touch screen tablet through a conversion using an integrated or detachable keyboard and mouse/trackpad; Support for dual digital monitors			
Vendor Model Number	Latitude 5340 2-in-1	Elite x360 830 G9	ThinkPad L13 Yoga Gen 3	
Type	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	
Processor	Intel Core i7-1365U vPro, 12 MB cache, 10 cores, up to 5.2 GHz **(non-vPro or vPro disabled)**	Intel® Core™ i7-1255U (1.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)	Intel® Core™ i7-1255U (1.7 GHz base frequency, up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)	
Trusted Memory Platform	Yes	Yes	Yes	
Memory	16 GB, LPDDR5/x Onboard Memory, 4800MHz (dual channel)	16 GB DDR5-4800 MHz RAM	16 GB DDR4-3200MHz (Soldered)	
Resolution	1920 x 1080	1920x1200	1920 x 1200	
Video Display	13.3" FHD (1920x1080) Touch, AR+AS, IPS, 300 nits, FHD Cam, WLAN/WWAN (5G), Pen Supp, GGDX	13.3 inch BV WUXGA (1920x1200) LED UWVA 250 for WWAN w5MP Touchscreen bnt LCD Panel	13.3" WUXGA (1920 x 1200), IPS, Anti-Reflective/Anti-Smudge, Touch, 100%sRGB, 300 nits, 60Hz	
Storage	M.2 512GB PCIe NVMe SSD	512GB PCIe NVMe SSD	512 GB SSD M.2 2242 PCIe Gen4 TLC Opal	
USB Ports	2x USB Type C Thunderbolt™ 4.0 with Power Delivery & DisplayPort 2x USB 3.2 Gen (1 with Power share)	Left side - One (1) USB-A 3.2 Gen 1 port, Two (2) USB-C Right Side- One (2) USB-A Charging port	1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 (Always On) 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)	
HDMI or DisplayPort	1 x HDMI 2.0	One (1) HDMI port, Two (2) USB-C Ports	1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4) 1x HDMI, up to 4K/60Hz	
Bluetooth	Bluetooth 5.3	Integrated with Bluetooth 5.3	Bluetooth Version 5.0	
Front Camera	FHB RGB Camera	5MP Camera	FHD IR/RGB Hybrid with Microphone	
Rear Camera	N/A	N/A	N/A	

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Mobile Ethernet Adapter	Order as an option - Dell Adapter USB-C to Ethernet, (470-ABND)	Order as an option – HP USB 3.0 to Gigabit RJ45 Ethernet Adapter F2, (4Z727AA)	Order as an option – Lenovo USB-C to Ethernet Adapter, (4X91D96889)	
Internal Wireless Adapter	Intel AX211 WiFi 6e 2x2 AX+ BT 5.3	Intel AX211 Wi-Fi 6E 160 MHz +Bluetooth 5.3 WW WLAN	Intel® Wi-Fi 6 AX201 2x2ax, Bluetooth Version 5.0 or above, vPro	
WWAN	Intel 5000 Global 5G (DW5931e), eSIM for AT&T, Verizon (Agency must select AT&T or Verizon model)	Intel XMM 7560 R+ LTE-Advanced Pro WWAN). Supports Verizon and AT&T cards. (Agency must select AT&T or Verizon model)	Quectel EM05-G 4G CAT4	
Keyboard	Includes integrated backlit keyboard	Integrated keyboard - part of x360 form factor	Integrated keyboard	
Power	65W Type-C Adapter with 3' Cord	45 Watt nPFC USB-C Straight AC Adapter	65W USB-C 90%PCC AC Adapter Black (2pin) - US	
Battery	54WHR, 3 Cell Battery Express Charge Capable	Long Life 51Whr Fast Charge 3 cell Battery up to 14 hours	Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter	
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	3YR Onsite	3 Year Premier Priority/Advanced Support, NBD Onsite	
Keep Hard Drive	Keep Your Hard Drive, 3 Year.	3YR KYD	3YR KYD	
Unit dimensions and weight	Height: 0.66", Width: 12.04, Depth: 8.17" , 2.97 lbs.	11.81 x 8.51 x 0.76in; 2.9lbs.	12.0 x 8.58 x 0.67 inches; 2.92 lbs	

3.1a-c 2-in-1 Laptop/Tablet (Alternate Model)	Dell	HP	Lenovo	Microsoft
Description	Device that can function in a traditional 'clam-shell' laptop configuration or as a light weight, touch screen tablet through a conversion using an integrated or detachable keyboard and mouse/trackpad			
Vendor Model Number		HP Elite X2 G8		Surface Pro 9 **(Items 3.1a & 3.1b)** Surface Pro 8 **(Item 3.1c)**
Type		Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit		Windows 11 Pro 64 bit (can be downgraded to Windows 10 Pro 64 bit by end user)
Processor		Intel® Core™ i7-1165G7 with Intel® UHD Graphics 620 (Up to 4.9 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores)		**Surface Pro 9 – Item 3.1a:** Intel® Core™ i7-1265U processor **Surface Pro 9 – Item 3.1b:** Microsoft SQ® 3 - Neural Processing Unit (NPU) **Surface Pro 8 – Item 3.1c:** Quad-core 11th Gen Intel® Core™ i7-1185G7
Trusted Memory Platform		Yes		Yes
Memory		16 GB LPDDR4X-4266 SDRAM		16.0GB
Resolution		FHD (1920x1280) BrightView		2880 x 1920 (267 PPI)
Video Display		13" diagonal, WUXGA+ (1920 x 1280), touch, IPS, BrightView, Corning® Gorilla® Glass 5, 400 nits, 72% NTSC		Screen: 13"" PixelSense™ Flow Display Resolution: 2880 x 1920 (267 PPI) Up to 120Hz Refresh Rate (60Hz default) Aspect ratio: 3:2 Touch: 10 point multi-touch GPU Ink Acceleration Dolby Vision® support Adaptive Color
Storage		512GB PCIe NVMe Three Layer Cell SSD		256GB SSD
USB Ports		1 SuperSpeed USB Type-C®		2 x USB-C® with USB 4.0/Thunderbolt™
HDMI or DisplayPort or USB-C Port		2 Thunderbolt™ 4 with USB4 Type-C®		1 x USB-C
Bluetooth		Bluetooth 5		Bluetooth 5.0

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Front Camera		User-facing FHD + IR camera		Windows Hello face authentication 5.0MP front-facing camera with 1080p full HD video
Rear Camera		Rear-Facing 8 MP Camera		10.0MP rear-facing autofocus camera with 1080p HD and 4k video
Internal Wireless Adapter		Intel Wi-Fi 6 AX201 ax 2x2 MU-MIMO nvPro 160MHz +Bluetooth 5 WW with 2 Antennas		Wi-Fi 6: 802.11ax compatible
Mobile Ethernet Adapter option		USB-C to Mobile Ethernet Adapter - Must be ordered as an option – pt# V7W66AA		Mobile Ethernet Adapter (must be added to order – part# JWM-00001)
WWAN		Intel XMM 7360 LTE-Advanced (Cat 9). Supports Verizon and AT&T cards. (Agency must select AT&T or Verizon model)		Supports AT&T and Verizon Wireless networks (4G LTE, HSPA, GPS)
Keyboard		Detachable HP Premium Keyboard – spill-resistant, full-size, backlit keyboard with DuraKeys		Detachable Type Cover (must be added to the order – part# QJX-00001)
Power		45 Watt nPFC USB-C Straight AC Adapter		AC Power Supply with 4' cord
Battery		2 cell, 47WHr, up to 11 hours		**Item 3.1a** – Up to 15.5 hours of typical device usage **Item 3.1b** - Up to 19 hours of typical device usage **Item 3.1c** – Up to 14 hours of typical device usage
Hardware Warranty		Includes 3 Year Next Business Day On-site with options to extend to 4 & 5 year coverage		3YR NBD Onsite with Accidental Damage coverage (must be added to order – part# F9W-00158 and part# SPC-00005)
Keep Hard Drive		Includes 3 Year Disk Media Retention with options to extend to 4 & 5 year coverage		Included with 3 Year warranty part above
Unit dimensions and weight		11.39 x 8.74 x 0.56 in; 2.58lbs		11.3" x 8.2" x 0.37" 1.96 lbs

3.2 2-in-1 Laptop/Tablet (Intel vPro)	Dell	HP	Lenovo	Microsoft
Description	Device that can function in a traditional 'clam-shell' laptop configuration or as a light weight, touch screen tablet through a conversion using an integrated or detachable keyboard and mouse/trackpad; Support for dual digital monitors			
Vendor Model Number	Latitude 5340 2-in-1	Elite x360 830 G9	ThinkPad L13 Yoga Gen 3	
Type	Windows 10 Pro (Includes Windows 11 Pro License)	Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit	Windows 10 Pro 64 preinstalled through downgrade rights in Windows 11 Pro 64	
Processor	Intel Core i7-1365U vPro, 12 MB cache, 10 cores, up to 5.2 GHz **(vPro)**	Intel vPro Enterprise with Intel Core i7-1265U (10 Core, 12 MB Cache, 12 Threads, up to 4.80 GHz) **(vPro)**	Intel vPro Enterprise with Intel Core i7-1265U (10 Core, 12 MB Cache, 12 Threads, up to 4.80 GHz) **(vPro)**	
Trusted Memory Platform	Yes	Yes	Yes	
Memory	16GB LPDDR5/x Onboard Memory, 4800MHz (dual channel)	16 GB DDR4-3200 SDRAM	16 GB DDR4-3200MHz (Soldered)	
Resolution	1920 x 1080	1920x1200	1920 x 1200	
Video Display	13.3" FHD (1920x1080) Touch, AR+AS, IPS, 300 nits, FHD Cam, WLAN, Penn Supp, GGDX	13.3 inch BV WUXGA (1920x1200) LED UWVA 250 for WWAN w5MP Touchscreen bnt LCD Panel	13.3" WUXGA (1920 x 1200), IPS, Anti-Reflective/Anti-Smudge, Touch, 100%sRGB, 300 nits, 60Hz	
Storage	M.2 512GB PCIe NVMe SSD	512GB PCIe NVMe SSD	512 GB SSD M.2 2242 PCIe Gen4 TLC Opal	
USB Ports	2x USB Type C Thunderbolt™ 4.0 with Power Delivery & DisplayPort 2x USB 3.2 Gen (1 with Power share)	Left side - One (1) USB-A 3.2 Gen 1 port, Two (2) USB-C Right Side- One (2) USB-A Charging port	1x USB 3.2 Gen 1 1x USB 3.2 Gen 1 (Always On) 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)	
HDMI or DisplayPort	1 x HDMI 2.0	One (1) HDMI port, Two (2) USB-C Ports	1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4) 1x Thunderbolt 4 / USB 4 40Gbps (support data transfer, Power Delivery 3.0, and DisplayPort 1.4) 1x HDMI, up to 4K/60Hz	
Bluetooth	Bluetooth 5.3	Integrated with Bluetooth 5.3	Bluetooth Version 5.0	
Front Camera	FHB RGB Camera	5MP Camera	FHD IR/RGB Hybrid with Microphone	
Rear Camera	N/A	N/A	N/A	
Mobile Ethernet Adapter	**Order as an option - Dell Adapter USB-C to Ethernet, 470-ABND**	**Order as an option – HP USB 3.0 to Gigabit RJ45 Ethernet Adapter F2 (4Z727AA)**	**Order as an option**	

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Internal Wireless Adapter	Intel AX211 WiFi 6e 2x2 AX+ BT 5.3	Intel AX211 Wi-Fi 6E 160 MHz +Bluetooth 5.3 WW WLAN	Intel® Wi-Fi 6 AX201 2x2ax, Bluetooth Version 5.0 or above, vPro	
WWAN	5G - Intel 5000 Global 5G (DW5931e), eSIM for AT&T, Verizon (Agency must select AT&T or Verizon model)	Intel XMM 7560 R+ LTE-Advanced Pro WWAN. Supports Verizon and AT&T cards. (Agency must select AT&T or Verizon model)	Quectel EM05-G 4G CAT4	
Keyboard	Includes integrated backlit keyboard	Integrated keyboard - part of x360 form factor	Integrated keyboard	
Power	65W Type-C Adapter with 3' Cord	45 Watt nPFC USB-C Straight AC Adapter	65W USB-C 90%PCC AC Adapter Black (2pin) - US	
Battery	54WHR, 3 Cell Battery Express Charge Capable	Long Life 51Whr Fast Charge 3 cell Battery, up to 14hours	Integrated Li-Polymer 46Wh battery, supports Rapid Charge (charge up to 80% in 1hr) with 65W AC adapter	
Hardware Warranty	ProSupport: Next Business Day Onsite, 3 Years	3YR Onsite	3 Year Premier Priority/Advanced Support, NBD Onsite	
Keep Hard Drive	Keep Your Hard Drive, 3 Year.	3YR KYD	3YR KYD	
Unit dimensions and weight	Height: 0.66", Width: 12.04, Depth: 8.17" , 2.97 lbs.	11.81 x 8.51 x 0.76in; 2.9lbs.	12.0 x 8.58 x 0.67 inches; 2.92lbs	

3.2a-c 2-in-1 Laptop/Tablet (Intel vPro) (Alternate Model)	Dell	HP	Lenovo	Microsoft
Description		Device that can function in a traditional 'clam-shell' laptop configuration or as a light weight, touch screen tablet through a conversion using an integrated or detachable keyboard and mouse/trackpad; Support for dual digital monitors		
Vendor Model Number		HP Elite X2 G8		
Type		Windows 11 Pro 64 bit downgraded to Windows 10 Pro 64 bit		
Processor		Intel® Core™ i7-1185G7 (up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores), supports Intel® vPro® Technology		
Trusted Memory Platform		Yes		
Memory		16 GB LPDDR4X-4266 SDRAM		
Resolution		FHD (1920x1280) BrightView		
Video Display		13" diagonal, WUXGA+ (1920 x 1280), touch, IPS, BrightView, Corning® Gorilla® Glass 5, 400 nits, 72% NTSC		
Storage		512GB PCIe NVMe Three Layer Cell SSD		
USB Ports		1 SuperSpeed USB Type-C®		
HDMI or DisplayPort		2 Thunderbolt™ 4 with USB4 Type-C®		
Bluetooth		Bluetooth 5		
Front Camera		User-facing FHD + IR camera		
Rear Camera		Rear-Facing 8 MP Camera		
Mobile Ethernet Adapter		Intel Wi-Fi 6 AX201 ax 2x2 MU-MIMO nvPro 160MHz +Bluetooth 5 WW with 2 Antennas		
Internal Wireless Adapter		USB-C to Mobile Ethernet Adapter - **Must be ordered as an option – pt# V7W66AA**		
WWAN		Intel XMM 7360 LTE-Advanced (Cat 9). Supports Verizon and AT&T cards. (Agency must select AT&T or Verizon model)		
Keyboard		Detachable HP Premium Keyboard – spill-resistant, full-size, backlit keyboard with DuraKeys		
Power		45 Watt nPFC USB-C Straight AC Adapter		
Battery		2 cell, 47WHr, up to 11 hours		
Hardware Warranty		Includes 3 Year Next Business Day On-site with options to extend to 4 & 5 year coverage		
Keep Hard Drive		Includes 3 Year Disk Media Retention with options to extend to 4 & 5 year coverage		
Unit dimensions and weight		11.39 x 8.74 x 0.56 in; 2.58lbs		

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4.1a EDU Chromebook Clamshell (Intel) (No WWAN model)	Dell	HP	Lenovo
Description	Education Chromebook for K-12 schools – 2-in-1 model		
Vendor Model Number	Chromebook 11 3110 2 in 1	Chromebook x360 11 G4 EE	Lenovo 300e Chromebook 2nd Gen
Operating System	GOOGLE CHROME EDU	Google Chrome Education License	Google Chrome Education License
Processor	Intel(R) Celeron(TM) N4500 (2 Core, 4M cache, base 1.1GHz, up to 2.8GHz)	Intel(R) Celeron(TM) N4500 (2 Core, 4M cache, base 1.1GHz, up to 2.8GHz)	Intel Celeron N4020 (2C / 2T, 1.1 / 2.8GHz, 4MB)
Memory	4GB 2933MHz LPDDR4 Non-ECC	4 GB LPDDR4x-4266 (on Motherboard)	4GB Soldered LPDDR4-2400
Video	Intel Integrated Graphics	Intel® UHD Graphics	Integrated Intel UHD Graphics 600
Video Display	11.6" HD (1366 x 768) Anti-Glare Touch, Camera & Microphone, WLAN Capable, with Pen Support	11.6-inch diagonal LED-backlit HD (1366 x 768) UWVA AG Touchscreen display	11.6" HD (1366x768) IPS 250nits Anti-glare, multi-touch
Hard Drive	32GB eMMC Hard Drive	32 GB eMMC	32GB eMMC
USB Ports	1x USB 3.2 Gen 1 Port 1x USB 3.2 Gen1 Type-C Port	L- One(1) USB-A , One (1) USB-C R- One(1) USB-A , One (1)USB-C	2x USB 3.1 Gen 1 2x USB-C 3.1 Gen 1 (support data transfer, Power Delivery and DisplayPort)
Bluetooth	Bluetooth 5.2	Bluetooth 5.0	Bluetooth 4.2
Internal Wireless Adapter	Intel Dual Band Wi-Fi 6 AX201 2x2 802.11ax 160MHz + Bluetooth 5.2	Intel Dual Band Wi-Fi 6 AX201 2x2 802.11ax 160MHz + Bluetooth 5.0	Intel 9560 11ac, 2x2 + BT4.2
Webcam	RGB HD, dual array mic	720p HD camera3; 5 MP Rear Camera	HD 720p
Power	65W AC Adapter, USB Type-C with 3' Cord	HP Smart 45 W USB Type-C® adapter	45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
Battery	3-Cell 42WHr Battery up to 8 hours	2 Cell 47WHr Long Life, up to 12 hours	3 Cell Li-Pol 42Wh
Hardware Warranty	ProSupport Next Business Day Onsite, 1 Year	1YR Depot Warranty with optional warranties	1YR. Mail-in after remote diagnosis
Energy Consumption	Energy Star	Energy Star	Energy Star
Environmental	EPEAT Registered	EPEAT Silver Registered	EPEAT Silver Registered
Unit dimensions and weight	Height: 0.82" x Width: 11.96" x Depth: 8.19" Weight: 2.85 lbs	11.61 X 8.08 x 0.74in; 2.95lb	11.42 x 8.03 x 0.8 inches; 2.89 lbs
White Glove Services	**Must be ordered as optional Value-Added Service**	**Must be ordered as optional Value-Added Service**	**Must be ordered as optional Value-Added Service**
Software License	Google Console Management License for Education	Google Console Management License for Education	Google Console Management License for Education

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4.1b EDU Chromebook Clamshell (Intel) (LTE Model)	Dell	HP	Lenovo
Description	Education Chromebook for K-12 schools – 2-in-1 model		
Vendor Model Number			Lenovo 500e Chromebook Gen 3 (Intel)
Operating System			Google Chrome Education License
Processor			Intel Celeron N5100 (4C / 4T, 1.1 / 2.8GHz, 4MB L3)
Memory			4GB Soldered LPDDR4x-2933
Video			Integrated Intel UHD Graphics 600
Video Display			11.6" HD (1366x768) IPS 250nits Glossy 50% NTSC, Glass, Touch
Hard Drive			32GB eMMC
USB Ports			2x USB 3.2 Gen 1 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort 1.2)
Bluetooth			Bluetooth 5.0
Internal Wireless Adapter			Intel AX201 11ax, 2x2 + BT5.0; WWAN Fibocom L850-GL
Webcam			HD 720p with Privacy Shutter + World Facing 5.0MP
Power			65W AC Adapter
Battery			3 Cell Li-Pol 42Wh
Hardware Warranty			1YR. Mail-in after remote diagnosis
Energy Consumption			Energy Star
Environmental			EPEAT Silver Registered
Unit dimensions and weight			11.42 x 8.03 x 0.8 inches; 2.89 lbs
White Glove Services			**Must be ordered as optional Value-Added Service**
Software License			Google Console Management License for Education

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4.2 EDU Chromebook Clamshell (Intel)	Dell	HP	Lenovo
Description	Education Chromebook for K-12 schools – Clamshell model		
Vendor Model Number	Chromebook 11 3110	Chromebook 11 G9 EE	
Operating System	GOOGLE CHROME EDU	Education Edition Chrome	
Processor	Intel(R) Celeron(TM) N4500 (2 Core, 4M cache, base 1.1GHz, up to 2.8GHz)	Intel(R) Celeron(TM) N4500 (2 Core, 4M cache, base 1.1GHz, up to 2.8GHz)	
Memory	4GB 2933MHz LPDDR4 Non-ECC	4 GB LPDDR4x-4266 (on Motherboard)	
Video	Intel Integrated Graphics	Intel® UHD Graphics 600	
Video Display	11.6" HD (1366 x 768) Anti-Glare Touch, Camera & Microphone, WLAN Capable, with Pen Support	11.6" diagonal, HD (1366 x 768), touch, IPS, anti-glare, 220 nits, 50% NTSC, 720P Camera	
Hard Drive	32GB eMMC Hard Drive	32 GB eMMC	
USB Ports	1x USB 3.2 Gen 1 Port 1x USB 3.2 Gen1 Type-C Port	L- One(1) USB-A , One (1) USB-C R- One(1) USB-A , One (1)USB-C	
Bluetooth	Bluetooth 5.2	Bluetooth 5.0	
Internal Wireless Adapter	Intel Dual Band Wi-Fi 6 AX201 2x2 802.11ax 160MHz + Bluetooth 5.2	Intel® Wi-Fi 6 AX201 (2x2) +BT 5.0	
NO WWAN/LTE	AGENCY CAN CHOOSE EITHER NO WWAN Option OR LTE Option	NO WWAN OPTION ONLY	
Webcam	RGB HD, dual array mic	720p HD	
Power	65W AC Adapter, USB Type-C with 3' Cord	45W USB Type-C™ adapter with 3" Cord	
Battery	3-Cell 42WHr Battery up to 8 hours	2 Cell 47WHr Long Life, up to 12 hours	
Hardware Warranty	ProSupport Next Business Day Onsite, 1 Year	1YR Depot Warranty with optional warranties	
Energy Consumption	Energy Star	Energy Star	
Environmental	EPEAT Registered	EPEAT Silver Registered	
Unit dimensions and weight	Height: 0.82" x Width: 11.96" x Depth: 8.19" Weight: 2.85 lbs	11.61 X 8.08 x 0.74in; 2.95lb	
White Glove Services included	**Must be ordered as optional Value-Added Service**	**Must be ordered as optional Value-Added Service**	
Software License	Google Console Management License for Education	Google Console Management License for Education	

4.2b EDU Chromebook Clamshell (Intel) (Alternate Model)	Dell	HP	Lenovo
Description	Education Chromebook for K-12 schools – Clamshell model		
Vendor Model Number		Fortis 11G9 Q Chromebook	
Operating System		Education Edition Chrome	
Processor		Qualcomm® Snapdragon™ 7c (up to 1.8 GHz, 1 MB L3 cache, 8 cores, 8 threads))	
Memory		4 GB LPDDR4x-4266 (on Motherboard)	
Video		Qualcomm® Adreno™ 618 GPU	
Video Display		11.6" diagonal, HD (1366 x 768), touch, IPS, 220 nits, 50% NTSC	
Hard Drive		32 GB eMMC	
USB Ports		2 SuperSpeed USB Type-C® 5Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.2); 1 SuperSpeed USB Type-A 5Gbps signaling rate;	
Bluetooth		Bluetooth 5.0	
Internal Wireless Adapter		Qualcomm® Atheros 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo	
NO WWAN/LTE		LTE Option: Qualcomm® Snapdragon™ X15 LTE Cat 12	
Webcam		720p HD	
Power		Smart 45 W USB Type-C® adapter	
Battery		Long Life 2-cell, 47 Wh Li-ion polymer	
Hardware Warranty		1YR Depot Warranty with optional warranties	
Energy Consumption		Energy Star	
Environmental		EPEAT Registered	
Unit dimensions and weight		11.61 x 8.09 x 0.75 in; 2.81lbs	
White Glove Services included		**Must be ordered as optional Value-Added Service**	
Software License		Google Console Management License for Education	

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4.3 Education Chromebook (AMD, 32GB eMMC HD) 2-in-1 Model (detachable keyboard or 360 hinge)	Dell	HP	Lenovo
Description	Education Chromebook for K-12 schools – 2-in-1 model		
Vendor Model Number			Lenovo 300e Chromebook Gen 3 (AMD)
Operating System			Google Chrome EDU
Processor			AMD 3015Ce (2C / 4T, 1.2 / 2.3GHz, 1MB L2 / 4MB L3)
Memory			4GB Soldered DDR4-1600
Video			AMD Integrated Graphics
Video Display			11.6" HD (1366x768) IPS 250nits Glossy 50% NTSC, Touch
Hard Drive			32GB eMMC
USB Ports			2x USB 3.2 Gen 1 1x USB-C 3.2 Gen 1 (support data transfer, Power Delivery 3.0, and DisplayPort 1.4)
Bluetooth			Bluetooth 5.0
Internal Wireless Adapter			Realtek RTL8822CE, 802.11ac Dual Band 2x2 Wi-Fi + Bluetooth 5.0, M.2 card
WWAN/LTE Option			AGENCY CAN CHOOSE EITHER NO WWAN Option OR LTE Option with Fibocom L850-GL card
Webcam			HD 720p with Privacy Shutter
Power			45W USB-C (2-pin) AC adapter, supports PD 3.0, 100-240V, 50-60Hz
Battery			3 Cell Li-Pol 47Wh
Hardware Warranty			1YR. Mail-in after remote diagnosis
Energy Consumption			Energy Star
Environmental			EPEAT Silver Registered
Unit dimensions and weight			11.4 x 7.97 x 0.78 inches; 2.93 lbs
White Glove Services included			Must be ordered as optional Value-Added Service
Software License			Google Console Management License for Education

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5.1a Flat Panel Monitor, 24-inch (with USB-C Hub)	Dell	HP	Lenovo
Vendor Model Number	U2422HE	E24U G5	ThinkVision P24h-30
Display Type	IPS	IPS	3-side NearEdgeless In-Plane Switching
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	1920x1080 @ 60Hz	1920x1080 @ 60 Hz	2560 x 1440
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms gray to gray	6ms (typical); 4ms (extreme mode)
Image Contrast Ratio	1000: 1 (typical)	1000 to 1	1000:1 (typical)
Brightness	250 cd/m² (typical)	250 cd/m²	300 WLED
Pixel Pitch	0.2745 mm x 0.2745 mm	0.27 (H) x 0.27 (V)mm	0.205 mm x 0.205 mm
Angle	178° H/V	178° H/V	178(H)/178(V)
Colors	16.7 million colors	Up to 16.7 million colors	16.7 million color
Input Signal	(1) DP, (1) DP out, (1) HDMI, (3) USB-C, (1) USB-A	1 DisplayPort™ 1.2 1 HDMI 1.4 1 USB Type-C;	1 x USB Type-C1 Gen 1 (DP 1.4 Alt Mode) 1 x HDMI 2.0 1 x DP 1.4 1 x DP Out
Cables Included	DisplayPort (DP-DP); USB-C (C-C); USB-C (C-A)	USB-C Cable	1 x DP 1.2 Cable (1.8 m); USB Type-C1 Gen 1 Cable (1.8 m)
Tilt Base	Tilt (-5° to +21°)	−5° to +23°	−5° to +23°
Swivel	Swivel (45° to 45°)	Swivel (45° to 45°)	Swivel (45° to 45°)
Height Adjustable	Yes	Yes, 150 mm	Yes
Rotation Capable	Pivot (90° clockwise)	90° Pivotable	90° Pivotable
Mount	VESA comp.	VESA comp.	VESA comp.
Ports	(1) RJ-45; (1) DP Out, capable of daisy chaining; (4) USB port; USB-C w/90W power delivery	USB-C capable of charging all laptops **EXCEPT ELITE LAPTOP models** 3 x USB-A 3.2 Gen 1 1 x downstream 15W USB-C 1 x RJ-45 Ethernet Port 1 x HDMI 1.4 1 x DisplayPort™1.2 1 x DisplayPort™1.2-out	Ethernet: Yes (10M/100M/1000M) USB Upstream: 1 x USB 3.2 Gen 1² (by USB Type-C¹) USB Downstream: 4 x USB 3.2 Gen 1² (1 x BC1.2)"
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 14.33 in compressed, 19.53 extended; (W) 21.17 in; (D) 7.07 in; Weight 13.35lbs	21.24 x 1.85 x 12.7 in; 13.2lbs	7.86 x 13.73 x 21.24 inches; 12.6lbs

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5.1a Flat Panel Monitor, 24-inch (with USB-C Hub) (Alternate Model)	Dell	HP	Lenovo
Vendor Model Number	P2422HE	E24M G4	
Display Type	FHD USB-C Hub Monitor	IPS	
Aspect Ratio	16:9	16:9	
Max / Native Resolution	1920x1080 @ 60 Hz	1920x1080 @ 60 Hz	
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms gray to gray	
Image Contrast Ratio	1000:1 (typical)	1000 to 1	
Brightness	250 cd/m² (typical)	300 cd/m²	
Pixel Pitch	0.2745 mm x 0.2745 mm	0.24795 (H) x 0.24795 (V)mm	
Angle	178° H/V	178° H/V	
Colors	16.7 million colors	Up to 16.7 million colors	
Input Signal	1 x HDMI port version 1.4 (HDCP 1.4) 1 x DisplayPort version 1.2 (HDCP 1.4) 1 x DisplayPort (Out) with MST (HDCP 1.4) 1 x USB Type-C® upstream port (Alternate mode with DisplayPort 1.2, Power Delivery up to 65 W) 4 x SuperSpeed USB 5Gbps (USB 3.2 Gen1) downstream port 1 x RJ45 port	1 DisplayPort™ 1.2; 1 HDMI 1.4; 1 USB Type-C; 4 USB-A	
Cables Included	DisplayPort to DisplayPort cable (1.8m) USB Type-C cable (1.8m)	USB-C Cable	
Tilt Base	Tilt (-5° to 21)	−5° to +23°	
Swivel	Swivel (-45° to 45°)	Swivel (45° to 45°)	
Height Adjustable	Yes	Yes	
Rotation Capable	Pivot (-90° to 90°)	90° Pivotable	
Mount	VESA comp.	VESA comp.	
Ports	1 x USB Type-C® upstream port (Alternate mode with DisplayPort 1.2, Power Delivery up to 65 W); USB-C capable of charging all laptops **EXCEPT ELITE LAPTOP models** 4 x SuperSpeed USB 5Gbps (USB 3.2 Gen1) downstream port **Ethernet: 1 RJ-45**	USB-C capable of charging all laptops **EXCEPT ELITE LAPTOP models** 4 USB Ports **Ethernet: 1 RJ-45**	
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-site	
Unit Dimensions and Weight	(H) 19.53 extended; (W) 21.17 in; (D) 7.07 in; Weight 13.23lbs	21.24 x 1.85 x 14 in; 16.29lbs	

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5.1b Flat Panel Monitor, 24-inch (no USB-C Hub)	Dell	HP	Lenovo
Vendor Model Number	U2422H	E24 G4 FHD	ThinkVision P24q-30
Display Type	IPS	IPS	3-side NearEdgeless, In-Plane Switching
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	1920x1080 @ 60Hz	1920 x 1080 @ 60 Hz	2560 x 1440
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms (typical)	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1 static	1000:1 (typical)
Brightness	250 cd/m² (typical)	250 cd/m²	300 WLED
Pixel Pitch	0.2745 mm x 0.2745 mm	0.2745 x 0.2745 mm	0.205 mm x 0.205 mm
Angle	178° H/V	178° H/V	178(H)/178(V)
Colors	16.7 million colors	Up to 16.7 million color	16.7 million color
Input Signal	(1) DP, (1) DP out, (1) HDMI, (2) USB-C, (1) USB-A	1 VGA; 1 USB Type-B; 1 HDMI 1.4; 1 DisplayPort™ 1.2; 4 USB-A 3.2 Gen 1	1 x USB Type-C1 Gen 1 (DP 1.4 Alt Mode) 1 x HDMI 2.0 1 x DP 1.4 1 x DP Out
Cables Included	DisplayPort (DP-DP); USB-C (C-A)	DisplayPort, USB-C and HDMI	1 x DP 1.2 Cable (1.8 m); USB Type-C1 Gen 1 Cable (1.8 m)"
Tilt Base	Tilt (-5° to +21°)	-5° to +23°	-5° to +23°
Swivel	Swivel (45° to 45°)	±45°	Swivel (-45° to 45°)
Height Adjustable	Yes	Yes	Yes
Rotation Capable	Pivot (90° clockwise)	90° Pivotable	90° Pivotable
Mount	VESA comp.	100 mm VESA mount	VESA comp.
USB Ports	(1) DP Out, capable of daisy chaining; (3) USB port; USB-C w/90W power delivery	4 USB-A 3.2 Gen 1	Supports daisy chain to P24h-30 USB Upstream 1 x USB 3.2 Gen 11 (by USB Type-B) USB Downstream 4 x USB 3.2 Gen 11 (1 x BC1.2)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with 9X5 Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 14.33 in compressed, 19.53 extended; (W) 21.17 in; (D) 7.07 in; Weight 12.27lbs	21.24 x 1.85 x 12.73 in; 12.54lbs	7.86 x 13.73 x 21.24 inches; 12.6 lbs

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5.2 Flat Panel Monitor, 27-inch	Dell	HP	Lenovo
Vendor Model Number	P2723D	E27u G5 QHD	ThinkVision T27h-30
Display Type	IPS	IPS	3-side Borderless In-Plane Switching
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	2560 x 1440 @ 60Hz	2560 x 1440 @ 60 Hz	2560x1440
Response Time	5ms (Fast mode), 8ms (Normal mode)	5ms gray to gray	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1 static	(1000:1), 3,000,000:1
Brightness	300, LED Backlight	350 nits	350 nits or cd/m2 (typical)
Pixel Pitch	0.2745 mm x 0.2745 mm	0.2331 x 0.2331 mm	0.2331 x 0.2331mm
Angle	viewing angle at 178°/ 178°	178° H/V	178(H)/178(V)
Colors	16.7 million colors	16.7 million color	16.7 million color
Input Signal	(1) DP, (1) HDMI, (2) USB-C	1 USB-C, 1 DisplayPort, 1 HDMI	1 x USB Type-C1 (DP 1.4 Alt Mode) 1 x HDMI 2.0 1 x DP 1.4 1 x DP Out
Cables Included	DisplayPort (DP-DP); USB-C (C-A)	USB-C cables	1 x DP 1.2 Cable (1.8 m); USB Type-C1 Gen 1 Cable (1.8 m)
Tilt Base	Tilt (5° to 21°)	-5° to +20°	-5° to +23°
Swivel	Swivel (-45° to 45°)	±45°	swivel: +/-45°
Height Adjustable	Yes	Yes	Yes
Rotation Capable	Pivot 90°, clockwise and counterclockwise	90° Pivotable	Rotation for portrait/landscape viewing (90 to portrait)
Mount	VESA comp.	100 mm VESA mount	VESA comp.
Ports	(4) USB	3 USB-A 3.2 Gen 1 1 downstream 15W USB-C 1 HDMI 1.4 1 DisplayPort™ 1.2 1 DisplayPort™ 1.2-out 1 RJ-45	USB Hub: Yes Ethernet: Yes (10M/100M/1000M) USB Upstream: 1 x USB 3.2 Gen 12 (by USB Type-C1) USB Downstream: 4 x USB 3.2 Gen12 (1 x BC 1.2)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 21.07 in; (W) 24.08 in; (D) 7.48 in; Weight 14.90 lbs	24.15 x 1.82 x 14.35 in, 15.87lbs.	.05 x 15.37 x 24.16 inches; 15.2 lbs

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5.3 Flat Panel Monitor, 24-inch (High Resolution)	Dell	HP	Lenovo
Vendor Model Number	U2421E	Z24u G3	ThinkVision P24q-30
Display Type	IPS	IPS	3-side NearEdgeless, In-Plane Switching
Aspect Ratio	16:10	16:10	16:9
Max / Native Resolution	1920 x 1200 @ 60 Hz	1920 x 1200 at 60 Hz	2560x1440
Response Time	5ms (Fast mode), 8ms (Normal mode)	5ms (typical)	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1 static; 10,000,000:1 dynamic	1000:1
Brightness	350 cd/m2 (typical)	350 nits	300 cd/m2
Pixel Pitch	0.270 mm x 0.270 mm	0.270 mm x 0.270 mm	0.2058 x 0.2058 mm
Angle	(178° vertical / 178° horizontal)	178° H/V	178(H)/178(V)
Colors	16.7 million color	Up to 16.7 million color	16.7 million color
Input Signal	(1) DP, (1) HDMI, (2) USB-C (90W power delivery); (1) RJ-45	1 HDMI 2.0; 1 USB Type-C;4 USB-A 3.2 Gen 1; 1 DisplayPort	1 x USB Type-C1 Gen 1 (DP 1.4 Alt Mode) 1 x HDMI 2.0 1 x DP 1.4 1 x DP Out
Cables Included	DisplayPort (DP-DP); USB-C (C-C); USB-C (C-A)	DP/USB	1 x DP 1.2 Cable (1.8 m); U SB Type-C1 Gen 1 Cable (1.8 m)
Tilt Base	Tilt (-5° to 21°)	-5 to +20°	-5 to +23°
Swivel	Swivel (-45° to 45°)	±45°	Swivel (-45° to 45°)
Height Adjustable	Yes	Yes, 150 mm	Yes
Rotation Capable	Pivot (90° clockwise)	90° Pivotable	90° Pivotable
Mount	VESA comp.	VESA Adapter	VESA comp.
USB Ports	(4) USB	4 USB-A 3.2 Gen 1	USB Upstream: 1 x USB 3.2 Gen 11 (by USB Type-B) USB Downstream: 4 x USB 3.2 Gen 11 (1 x BC1.2)"
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with 9X5 Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 20.11 in; (W) 20.90 in; (D) 6.81 in; Weight 13.4 lbs	20.93 x 7.68 x 20.53in; 11.69lbs	7.86 x 13.73 x 21.24 inches; 12.6 lbs

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5.4 Flat Panel Monitor, 27-inch (High Resolution, 4K)	Dell	HP	Lenovo
Vendor Model Number	P2723QE	Z27k G3 4K	ThinkVision T27p-10
Display Type	IPS	IPS	IPS
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	3840 x 2160 @ 60 Hz	4K UHD (3840 x 2160 @ 60 Hz)	3840 x 2160
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5 ms gray to gray	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1 static; 10000000:1 dynamic	1000:1 (typical), 3000000:1 dynamic
Brightness	350 cd/m²	350 cd/m²	350 nits or cd/m2 (typical)
Pixel Pitch	.1554mm x .1554mm	0.1554 x 0.1554	0.1554 x 0.1554
Angle	viewing angle at 178°/ 178°	178° H/V	178(H)/178(V)
Colors	1.07 billion colors	1.07 billion colors	1.07 billion color
Input Signal	(1) DP, (1) HDMI, (1) USB-C (90W power delivery); (1) RJ-45	1 HDMI 2.0; 4 USB-A 3.2 Gen 1; 1 USB Type-C™ 1 DisplayPort	HDMI 2.0 + DP 1.2 + USB 3.1 Type-C (DP 1.2 Alt Mode)
Cables Included	DisplayPort (DP-DP); USB-C (C-C); USB-C (C-A)	DP/USB/HDMI	1 x HDMI Cable 1 x USB Type-C to Type-C cable
Tilt Base	Tilt (-5° to 21°)	-5° to +20°	-5° to +30°
Swivel	Swivel (-45° to 45°)	±45°	Swivel (-45° to 45°)
Height Adjustable	Yes	Yes, 150 mm	Yes
Rotation Capable	Pivot 90°, clockwise and counterclockwise	90° Pivotable	Rotation for portrait/landscape viewing (90 to portrait)
Mount	VESA comp.	VESA Adapter	VESA comp.
Ports	(4) USB	4 x USB-A 3.2 Gen 1	USB Upstream: 1 x USB 3.1 Gen1 (by USB Type-C) USB Downstream: 4 x USB 3.1 Gen1 (with 1 BC)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 21.07 in; (W) 24.08 in; (D) 7.28 in; Weight 15.9 lbs	24.11 x 8.07 x 20.88in; 13.7lbs	10.62 x 15.88 x 24.08 inches 15.32lbs.

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5.5 Flat Panel Monitor, 24-inch for Video Conferencing	Dell	HP	Lenovo
Vendor Model Number	C2422HE	E24mv G4 FHD	ThinkVision T24v-20
Display Type	IPS	IPS	IPS
Video Conference Capable	1080p FHD, dual digital, IR microphones and speakers	Camera 5MP; 2 microphones; speakers	Integrated Webcam: Yes (1080p, IRRGB camera) Integrated Microphone: Yes Integrated Speakers: Yes (2 x 3W) "
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	1920 x 1080 @ 60Hz	1920 x 1080	1920 x 1080
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms (typical)	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1	1000:1 (typical)
Brightness	250, LED Backlight	250 nits	250 cd/m2
Pixel Pitch	0.2745 mm x 0.2745 mm	0.2745mm x 0.2745mm	0.2745 x 0.2745 mm
Angle	(178° vertical / 178° horizontal)	178° H/V	178(H)/178(V)
Colors	16.7 million color	Up to 16.7 million color	16.7 million color
Input Signal	(1) DP; (1) HDMI; (1) USB-C (90W power delivery); (1) RJ-45	1 VGA; 1 HDMI 1.4; 1 DisplayPort™ 1.2; 4 USB-A 3.1 Gen 1	1 x HDMI 1.4 1 x DP 1.2 1 x VGA
Cables Included	DP (DP-DP); USB-C (C-C); USB (A-B)	DisplayPort™ cable; HDMI cable; USB Type-A to B cable	1 x DP cable (1.8 m)
Tilt Base	Tilt (-5° to 21°)	-20 to +5°	-5 to +35°
Swivel	Swivel (-45° to 45°)	±45°	swivel: +/-45°; detachable stand
Height Adjustable	Yes	Yes	Yes
Rotation Capable	Pivot (90° clockwise)	N/A	90° Pivotable
Mount	VESA comp.	100 mm VESA mount	VESA comp.
USB Ports	(5) USB	4 USB-A 3.2 Gen 1	USB Upstream 1 X USB 3.2 Gen1 USB Downstream 2 x USB 3.2 Gen1 (1 x BC 1.2)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with 9X5 Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 15.9 compressed, 21.4 in extended; (W) 21.21 in; (D) 7.3 in; Weight 9.6 lbs	21.23 x 8.5 x 20.9 in;14.3lbs	8.07 x 17.0 x 21.2 inches; 17.33 lbs.

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5.6 Flat Panel Monitor, 27-inch for Video Conferencing	Dell	HP	Lenovo
Vendor Model Number	C2722DE	E27m G4	ThinkVision T27hv-20
Display Type	IPS	IPS	IPS
Video Conference Capable	1080p FHD, dual digital, IR microphones and speakers	Yes, 5MP Independent tilt -20° to 5°; Windows Hello (IR Sensor); Pop-up privacy; Auto focus	Integrated Webcam: Yes (1080p, IRRGB camera) Integrated Microphone: Yes Integrated Speakers: Yes (2 x 3W)
Aspect Ratio	16:9	16:9	16:9
Max / Native Resolution	2560 x 1440 @ 60 Hz	2560 x 1440 @ 60 Hz	2560x1440
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1	1000:1 (typical), 3000000:1 dynamic
Brightness	350, LED Backlight	300	350 nits or cd/m2 (typical)
Pixel Pitch	.2331mm x .2331mm	.2331mm x .2331mm	0.2331 x 0.2331 mm
Angle	178° vertical / 178° horizontal	178(H)/178(V)	178(H)/178(V)
Colors	16.7 mill color	16.7 Million colors	16.7 Million
Input Signal	(1) DP; (1) HDMI; (2) USB-C (90W power delivery); (1) RJ-45	1 DisplayPort; 1 HDMI 1.4; Display[prt 1.2	1 x USB Type-C2 Gen1 (DP1.2 Alt Mode) 1 x HDMI 1.4 1 x DP 1.2 1 x DP 1.2 out
Cables Included	DP (DP-DP); USB-C (C-C); USB (A-B)	USB-C Cable	1 x USB Type-C to Type-C cable (1.8 m) 1 x DP cable (1.8m)
Tilt Base	Tilt (-5° to 21°)	(-5 to +23)	(-5° to 35°)
Swivel	Swivel (-45° to 45°)	(-45 to +45)	Swivel (-45° to 45°)
Height Adjustable	Yes	Yes	Yes
Rotation Capable	Pivot 90°, clockwise and counterclockwise	N/A	Rotation for portrait/landscape viewing (90 to portrait)
Mount	VESA comp.	VESA comp.	VESA comp.
Ports	(5) USB	4 USB-A ports	USB Upstream: 1 x USB3.2 Gen1 (1 by USB Type-C Gen1) USB Downstream: 4 x USB 3.2 Gen1 (1 x BC1.2)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 17.54in compressed, 22.30 in extended; (W) 24.11 in; (D) 9.1 in; Weight 12.7 lbs	24.13 x 1.85 x 15.61 in; 18.78lbs	8.19 x 18.65 x 24.16 inches; 16.20lbs.

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5.7 34-inch Curved Monitor	Dell	HP	Lenovo
Vendor Model Number	U3423WE	P34hc	ThinkVision T34w-20
Display Type	IPS, Curved Screen (1900R)	VA curved Display 1500R	3-side NearEdgeless VA (Vertical Alignment) 1500R
Aspect Ratio	21:9	21:9	21:9
Max / Native Resolution	WQHD 3440 x 1440 at 60 Hz	3440 x1440	3440 x 1440 @60Hz
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	5ms (typical)	6ms (typical)
Image Contrast Ratio	2000: 1 (typical)	3500 to 1	(3000:1), 3,000,000:1
Brightness	300, LED Backlight	250 nits	350 WLED
Pixel Pitch	0.2325 mm x 0.2325 mm	0.231 mm	0.2317 x 0.2317 mm
Angle	(178° vertical / 178° horizontal)	178° H/V	178(H)/178(V)
Colors	1.07 billion colors	Up to 16.7 million colors	16.7 million colors
Input Signal	(1) DP 1.4; (2) HDMI 2.1; (1) USB-C (90W power delivery); (1) RJ-45	1 DisplayPort™ 1.2, 1 HDMI 2.0 and 1 USB-C	1 x USB Type-C Gen1 (DP1.2 Alt Mode) 1 x HDMI 2.0 1 x DP 1.2
Cables Included	HDMI; DisplayPort (DP-DP), USB Type-C (C-C), USB 3.2 (A-C)	HDMI, DP, USB-C	1 x DP cable (1.8 m) 1 x USB Type-C to Type-A cable (1.8 m) 1 x USB Type-C to Type-C cable (1.8 m)
Tilt Base	Tilt (-5° to 21°)	-5 to +21°	-5 to +35°
Swivel	Swivel (-30° to 30°)	±45°	Swivel (-45° to 45°)
Height Adjustable	Yes	Yes, 100 mm	Yes
Rotation Capable	N/A	N/A	N/A
Mount	VESA comp.	100 x 100 mm	VESA comp.
USB Ports	USB-C 3.2 Gen 2 upstream/DisplayPort 1.4 Alt Mode with Power Delivery; USB-C 3.2 Gen 2 upstream; 4 x USB 3.2 Gen 2 downstream; USB-C 3.2 Gen 2 downstream; USB 3.2 Gen 2 downstream with Battery Charging 1.2	Four (4) USB-A ports, One (1) USB-C, One (1) USB-B	USB Upstream: 1 x USB 3.1 Gen1 (by USB Type-C) USB Downstream: 4 x USB 3.1 Gen1 (1 BC)
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with 9X5 Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 15.5 in compressed, 21.37 in extended; (W) 32.0 in; (D) 9.3 in; Weight 25.13lbs	31.89 x 4.41 x 14.44 in; 23.17lb	9.65 x 18.21 x 31.84 inches; 21.85 lbs

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5.8 38-40 inch Curved Monitor	Dell	HP	Lenovo
Vendor Model Number	U3821DW	Z40c	ThinkVision P40w-20
Display Type	IPS, Curved Screen (2300R)	IPS w/LED backlight, 2500R	3-side NearEdgeless In-Plane Switching 2500R
Video Conference Capable	N/A	Camera 13MP and microphone -works as a conferencing monitor	N/A
Aspect Ratio	21:9	21:9	21:9
Max / Native Resolution	UWQHD+ (3840 x 1600 @ 60 Hz)	5120 x 2160	5120 x 2160 @75Hz
Response Time	5 ms (Fast mode), 8 ms (Normal mode)	14ms	6ms (typical)
Image Contrast Ratio	1000: 1 (typical)	1000:1 static; 5000000:1 dynamic	1000:1 (typical), 3000000:1 dynamic
Brightness	300, LED Backlight	300cd/m2	300 WLED
Pixel Pitch	0.22908 mm x 0.22908 mm	0.181 x 0.181	0.1815 x 0.1815 mm
Angle	viewing angle at 178°/ 178°	178° H/V	178(H)/178(V)
Colors	1.07 billion colors	1.07 billion colors	1.07 billion color
Input Signal	(1) DP; (2) HDMI; (1) USB-C (90W power delivery); (1) RJ-45	1 DisplayPort™ 1.2, 1 HDMI 2.0 and 2 USB-C	2 x Thunderbolt™ 4 1 x HDMI 2.0 1 x DP 1.4"
Cables Included	HDMI; DisplayPort (DP-DP); USB-C (C-C); USB 3.2 (A-B)	DP/USB/HDMI	1 x Thunderbolt™ 4 cable (40 Gbps)
Tilt Base	Tilt (-5° to 21°)	-5° to +20°	-5° to +22°
Swivel	Swivel (-30° to 30°)	±45°	Swivel (-45° to 45°)
Height Adjustable	Yes	100 x 100 mm	Yes
Rotation Capable	N/A	N/A	N/A
Mount	VESA comp.	VESA mount	VESA comp.
Ports	(6) USB	3 (USB ports) 1 USB-C	USB Upstream: 1 x USB 3.2 Gen 1[8] (1 by USB Type-B) 1 x Thunderbolt™ 4 USB Downstream: 4 x USB 3.2 Gen 1 Type-A[8] 1 x USB 3.2 Gen 1 Type-C[8] 1 x Thunderbolt™ 4
Hardware Warranty	3-Year Advanced Exchange Service and Premium Panel Guarantee	3YR Limited Warranty with Next Business Day On-Site	Three Year Next Business Day Advanced Exchange
Unit Dimensions and Weight	(H) 17.47 in compressed, 22.20 in extended; (W) 35.21 in; (D) 9.89 in; Weight 29.98 lbs	35.26 x 4.1 x 15.73in; 30.36lbs	11.00 x 20.12 x 37.30 inches; 32.2 lbs

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Updates:

2022-09-28:   Updated HP configuration information for 5.1a & 5.1a (Alternate) models.

2022-09-30:   Updated Microsoft Store contact information. Microsoft removed items 2.29, 2.30, 2.32, 2.33, and 2.34 from Master Award.

2022-10-10:   Dell updated the item/quote numbers for the following models:

        Item: 2.3a High End Laptop (Intel, Non-vPro, Non-Touchscreen)

        Items: 5.1a – 5.8 (Replaced quote numbers with Dell part numbers for monitors)

2022-10-31:   Dell updated quote number for Item 2.4b High End Laptop (Intel, vPro, Touchscreen)

2022-11-22:   HP decreased the pricing for the following configurations:

1.1a	Standard/Basic Desktop (256GB SSD)
1.1b	Standard/Basic Desktop (512GB SSD)
1.2	Mid-Range Desktop
1.5a	Micro/Tiny Desktop (Intel i3 Proc, 256GB SSD)
1.5b	Micro/Tiny Desktop (Intel i5 Proc, 512GB SSD)
2.1a	Standard/Basic Laptop (Intel, Non-Touchscreen
2.1b	Standard/Basic Laptop (Intel, Touchscreen)
2.3a	High End Laptop (Intel, Non-Touchscreen)
2.3b	High End Laptop (Intel, Touchscreen)
2.5a	Elite Laptop 1 (Intel, 4GB Video, 32GB Memory, Non-Touch)
2.7a	Ultralight Laptop
2.7b	Ultralight Laptop (Intel vPro)
3.1a	2-in-1 Laptop / Tablet (No WWAN)
3.1b	2-in-1 Laptop / Tablet (AT&T)
3.1c	2-in-1 Laptop / Tablet (Verizon)
3.2a	2-in-1 Laptop / Tablet (No WWAN)(Intel vPro)
3.2a	**ALTERNATE** 2-in-1 Laptop / Tablet (No WWAN) (Intel vPro)
3.2b	2-in-1 Laptop / Tablet (AT&T) (Intel vPro)
3.2b	**ALTERNATE** 2-in-1 Laptop / Tablet (AT&T) (Intel vPro)
3.2c	2-in-1 Laptop / Tablet (Verizon) (Intel vPro)
3.2c	**ALTERNATE** 2-in-1 Laptop / Tablet (Verizon) (Intel vPro)

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HP updated the part numbers for the following items:

2.4a   High End Laptop (Intel, vPro, Non-Touchscreen)

2.4b   High End Laptop (Intel, vPro, Touchscreen)

1.30, 1.31, 1.33, 1.34, 1.35, 1.37, 2.42, 2.43, 2.45, 2.46, 2.47, 2.49, 2.53, 2.54, 2.56, 2.57, 2.58, 2.60, 2.61, 2.62, 2.64 (Warranty skus)

HP added a USB-C Essential Docking Station – items 2.12a, 2.13a, 2.15a

2022-12-06:   Dell updated quote/part numbers and decreased pricing on the following items:

2.6a   Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Non-Touch (Updated memory)

2.6b   Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Touchscreen) (Updated memory)

2.6c   Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Non-Touch) (Updated memory)

2.6d   Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Touchscreen) (Updated memory)

4.1a   Education Chromebook (Intel, 32GB eMMC HD) 2-in-1 Model (No WWAN) (Touch) (Decreased cost)

5.1a   Flat Panel Monitor, 24-inch (with USB-C Hub)

5.1b   Flat Panel Monitor, 24-inch (no USB-C Hub)

5.3   Flat Panel Monitor, 24-inch (High Resolution)

5.5   Flat Panel Monitor, 24-inch for Video Conferencing

5.6   Flat Panel Monitor, 27-inch for Video Conferencing

5.7   34-inch Curved Monitor

Dell added

5.1a   ALTERNATE Flat Panel Monitor, 24-inch (with USB-C Hub)

2.11a   128B 3600Mhz CAMM Memory for Elite Laptop 2

Dell removed Item 2.10 (Elite Laptop 1 & 2: 32.0GB DDR3 SDRAM Memory (1 DIMM))

2023-01-12:   Microsoft updated models for the following items:

2.3b   High End Laptop (Intel, Touchscreen) – changed to the Surface 5 (15 inch)

2.7a   ALTERNATE Ultralight Laptop (Intel, Non-vPro) – changed to Surface 5 (13 inch)

3.1a   ALTERNATE 2-in-1 Laptop / Tablet (Intel Non-vPro) (No WWAN) – changed to Surface Pro 9

3.1b   ALTERNATE 2-in-1 Laptop / Tablet (Intel Non-vPro) (AT&T) - changed to Surface Pro 9

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2023-01-30:   Dell updated quote number for the following item:

1.3   Workstation 1 (i7 Proc, 4GB Video, 64GB Memory, 1TB SSD)

2023-02-01:   Dell updated the part/model numbers on the following items:

5.7   34-inch Curved Monitor – model updated to U3423WE

1.06   Basic/Standard Desktop: 8.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM) price decreased

1.07   Mid-Range Desktop: 8.0GB Non-ECC DDR3 SDRAM Memory (1 DIMM) price decreased

1.28   Micro VESA Mount with adapter box – model updated

2.32   Keyboard, USB, Enhanced – price decreased

8.09   Toshiba Canvio Advance 1TB USB 3.2 Gen 1 Portable External Hard Drive – model updated and pricing decreased

4.13   EDU Chromebook Standard White Glove Services: Includes Asset Tagging, OS upgrading; Enrolling/Registering device in school system's Google domain – **Removed Dell part number and added note to contact Dell for quote**

4.15   Expanded EDU Chromebook OS Configuration Services: Includes Google enrollment, Asset tag, Asset Report, Laser Etching, Box Label, liftgate with Advance Notify, Depalletization, Inside Delivery, Trash Removal, Multi-Pack packaging – **Removed Dell part number and added note to contact Dell for quote**

4.16   Etching– **Removed Dell part number and added note to contact Dell for quote**

4.11   EDU Chromebook AC Adapter / Power Supply – model updated

2.14   Elite Laptop 1 & 2 Port Replicator (Docking Station) – Dell added a new part number specific to the Elite Laptop 1 models.

5.09   Speaker Bar to work with all monitor configurations – model updated

2023-02-03:   HP updated the part numbers on the following items:

2.30 & 3.08   Mouse, USB, 2-button, Wireless

2.16a, 2.17a, 2.19a   AC Adapter / Power Supply - (traditional 45 degree/right angle or barrel adapters) – For Basic, High End, & Ultralight laptops

2023-02-16:   Microsoft changed the part number for the Microsoft USB 3.0 to Ethernet Adapter – Commercial included in the device configurations from part number EJS-00002 to part number JWM-00001 for the following models:

2.1b   Standard/Basic Laptop (Intel, Touchscreen)

2.3b   High End Laptop (Intel, Non-vPro, Touchscreen)

2.7a   ALTERNATE Ultralight Laptop (Intel, Non-vPro)

3.1a   ALTERNATE 2-in-1 Laptop / Tablet (Intel Non-vPro) (No WWAN)

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3.1b   ALTERNATE 2-in-1 Laptop / Tablet (Intel Non-vPro) (AT&T)

3.1c   ALTERNATE 2-in-1 Laptop / Tablet   (Intel non-vPro) (Verizon)

2023-03-16:   Updated weblink for HP Resource CD/drivers.

Dell decreased the price for the following items:

4.11   EDU Chromebook AC Adapter / Power Supply

8.01   HDMI to HDMI Adapter (All Desktop and Laptop Configurations)

2023-03-20:   Updated contact email for Microsoft Store

2023-03-24:   Dell updated the part numbers on the following items:

2.3a   High End Laptop (Intel, Non-vPro, Non-Touchscreen)

4.1a   Education Chromebook   (Intel, 32GB eMMC HD) 2-in-1 Model (No WWAN) (Touch)

2023-04-03:   Dell updated the model & part numbers on the following items:

1.3   Workstation 1 (i7 Proc, 4GB Video, 64GB Memory, 1TB SSD) – part number change

1.4   Workstation 2 (i9 Proc, 8GB Video, 64GB Memory, 1TB SSD) - part number change

2.1a   Standard/Basic Laptop (Intel, Non-Touchscreen) – changed to Latitude 3440

2.1b   Standard/Basic Laptop (Intel, Touchscreen) – changed to Latitude 3440

2.3a   High End Laptop (Intel, Non-vPro, Non-Touchscreen) – changed to Latitude 3540

2.3b   High End Laptop (Intel, Non-vPro, Touchscreen) – changed to Latitude 3540

2.4a   High End Laptop (Intel, vPro, Non-Touchscreen) – changed to Latitude 5540

2.4b   High End Laptop (Intel, vPro, Touchscreen) – changed to Latitude 5540

2.5a   Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Non-Touch) – changed to Mobile Precision 3581

2.5b   Elite Laptop 1 (Intel, Non-vPro, 4GB Video, 32GB Memory, Touchscreen) – changed to Mobile Precision 3581

2.5c   Elite Laptop 1 (Intel vPro, 4GB Video, 32GB Memory, Non-Touch) – changed to Mobile Precision 3581

2.5d   Elite Laptop 1 (Intel vPro, 4GB Video, 32GB Memory, Touchscreen) – changed to Mobile Precision 3581

2.6a   Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Non-Touch) – changed to Mobile Precision 7680

2.6b   Elite Laptop 2 (Intel, Non-vPro, 8GB Video, 64GB Memory, Touchscreen) – changed to Mobile Precision 7680

2.6c   Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Non-Touch) – changed to Mobile Precision 7680

2.6d   Elite Laptop 2 (Intel vPro, 8GB Video, 64GB Memory, Touchscreen – changed to Mobile Precision 7680

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2.7a   Ultralight Laptop (Intel, Non-vPro) – changed to Latitude 5440

2.7b   Ultralight Laptop (Intel vPro) – changed to Latitude 5440

3.1a   2-in-1 Laptop / Tablet (Intel Non-vPro) (No WWAN) – changed to Latitude 5340

3.1b   2-in-1 Laptop / Tablet (Intel Non-vPro) (AT&T) – changed to Latitude 5340

3.1c   2-in-1 Laptop / Tablet (Intel Non-vPro) (Verizon) – changed to Latitude 5340

3.2a   2-in-1 Laptop / Tablet (No WWAN) (Intel vPro) – changed to Latitude 5340

3.2b   2-in-1 Laptop / Tablet (AT&T) (Intel vPro) – changed to Latitude 5340

3.2c   2-in-1 Laptop / Tablet (Verizon) (Intel vPro) – changed to Latitude 5340

2023-05-04:   HP updated the model and part numbers on the following items:

5.1a   Flat Panel Monitor, 24-inch (with USB-C Hub) – changed to E24U G5

5.2   Flat Panel Monitor, 27-inch – changed to E27U G5

2023-05-10:   Dell updated the model & part numbers on the following items:

Moved item 8.09 into Item 8.08 (USB External Hard Drive- 1TB). Removed Item 8.09

1.1a   Standard/Basic Desktop (256GB SSD HD) – changed to Optiplex 7010

1.1b   Standard/Basic Desktop   (512GB SSD HD) – changed to Optiplex 7010

1.2   Mid-Range Desktop – changed to Optiplex 7010

1.5a   Micro/Tiny Desktop (Intel i3 Proc, 256GB SSD) – changed to Optiplex Micro 7010

1.5b   Micro/Tiny Desktop (Intel i5 Proc, 512GB HD) – changed to Optiplex Micro 7010

2.3a   High End Laptop (Intel, Non-vPro, Non-Touchscreen) – changed part number

2023-05-16:   1.18 & 2.24:   External Speakers – price decreased

2.27:   Webcam – part number changed

2.34 & 3.11:   Keyboard, Bluetooth – part number changed

3.09:   Mouse, Bluetooth – part number changed

8.10:   HDMI Cable 3ft (M/M) – price decreased